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Physicians of the Mayo Clinic and Mayo Foundation. W. B. SAUNDERS Company, Philadelphia and London, 1927. vii + 578 pages.

This publication of nearly six hundred pages lists all the physicians connected with the Mayo Clinic up to January 1st, 1926—six hundred thirty-five, in all. A brief biography of each man is given, and portraits are inserted. In addition, a bibliography is appended for each indivdual. The value of this book, of course, is largely historical, although it may have uses as a reference book, especially the bibliographical sections. Two indexes are given. The first is a list of universities and colleges by which the degree of doctor of medicine was conferred and the second is a geographical index.

B M + S J 5/5/27

PHYSICIANS

of the

MAYO CLINIC

and

MAYO FOUNDATION

WITH PORTRAITS

PHILADELPHIA AND LONDON

W. B. SAUNDERS COMPANY

1927

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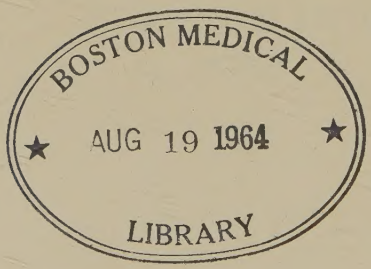

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INTRODUCTION

The present volume is intended to provide in brief form complete and accurate data concerning the professional life of each physician who, prior to January 1, 1926, had been officially connected with the Mayo Clinic or The Mayo Foundation for a period of one year or more. Addresses are corrected to the time of going to press. It is intended primarily for reference by these institutions, by ex-members of their staffs, and by medical societies and libraries. It is hoped it also may be of some interest to the many friends of the institutions named.

A word of explanation may not be amiss in reference to the large number of names (635) contained herein.

From the time when, in 1888, Dr. William Worrell Mayo and his two sons, William James and Charles Horace Mayo, began to practice medicine as a family group in Rochester with their work centered in St. Mary's Hospital, it was their policy to associate with them other physicians to assist in general work, or to develop special fields. Almost from the beginning two types of associates or assistants were thus taken on. The first of these were those who became associated with the group on a presumably permanent arrangement. Almost all such physicians, except those who have died, are still so associated with the Clinic. The second group, consisting originally of interns or other junior assistants, were taken on for a temporary period. Beginning in 1905 these hitherto usually annual appointments were gradually lengthened into services of two or three years. In 1908 the holders of these positions began to be designated "fellows of the Mayo Clinic." By 1912 thirty to forty such temporary positions had been created. These positions, with fairly definite sequence of service in the several years, constituted, in effect, a school for graduates in medicine to fit themselves for the practice of some specialty. Because of this development, in 1914 the President of the University of Minnesota, Dr. George H. Vincent, proposed to the Doctors Mayo that the educational work in the Mayo Clinic be made a part of the University of Minnesota. After a preliminary trial period this plan was finally consummated in 1915 by the founding and endowment of The Mayo Foundation, which is a definite part of the Graduate School of the University of Minnesota, but utilizes for educational purposes the clinical and laboratory facilities of the Mayo Clinic and the hospitals controlled thereby.

Thus, since 1915, temporary appointees have been designated "fellows or special students of The Mayo Foundation." These fellows and special students at present number 253.

January 1, 1920 the Mayo Clinic ceased to be a private partnership and became a democratic organization consisting of the Mayo Properties Association, a holding corporation without capital stock, and the Faculty of the Mayo Clinic, which latter group is engaged in the practice of medicine. This faculty of the Mayo Clinic comprises all the members of the permanent professional staff, each of whom has a vote in the management of its affairs. At present there are 132 members of the Mayo Clinic Faculty.

Thus it will be seen that for many years there has been a regular inflow and outflow to and from the ranks of the professional staff of the Mayo Clinic and The Mayo Foundation. At present the interchange is approximately sixty physicians each year. This accounts for the large number of names included in the present volume. It also suggests the necessity for frequent subsequent editions of the book if it is to be kept up to date and remain valuable as a work of reference. With this in view it is planned to hold the type for subsequent editions, adding to the biography of each physician such new data concerning his publications, society memberships, change of address, and other facts of interest, and interpolating biographies of new members of the Clinic and Foundation.

A period of one year has been made the minimal basis for inclusion in the directory following the rules adopted by the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. It is perhaps unfortunate that this has made necessary the exclusion of many worthy physicians whose individual connection with the institutions was for a period of less than one year. But when it is remembered that for many years professional visitors, observers, and volunteer laboratory assistants have come to the institution for periods of from one day to several months it will be seen that it was necessary to draw the line at a definite period or risk a cumbersome volume containing a great number of names of persons concerning whom very incomplete data were available.

However, anyone who is interested concerning individuals whose names are not included in the present volume and who, it is supposed, have been connected with the Mayo Clinic or The Mayo Foundation at any time, will on inquiry be given all information at hand concerning such individuals in the records of the Mayo Clinic or The Mayo Foundation. It must be remembered, however, that such information concerning the great variety of casual visitors is very meager.

Besides the detailed biographic sketches arranged in alphabetic order a list is given arranged according to geographic distribution and another arranged according to the medical schools from which members received their M.D. degrees.

While the information here contained is as accurate as it has been possible to obtain, there are no doubt many omissions and many inaccuracies, and any additions or corrections will be cheerfully welcomed.

Division of Publications
Mayo Clinic
Rochester, Minnesota

February, 1927.

Abbott, John S., was born November 15, 1883 in St. Paul, Minnesota; received the degree of B.A. from the University of Minnesota in 1905, and of M.D. from the University of Pennsylvania Medical School in 1908, and was intern in the St. Paul City Hospital, St. Paul, one year, in 1908 and 1909. He came to the Mayo Clinic September 1, 1909 as clinical assistant, and in 1910 was made assistant in surgery. He returned to St. Paul to practice medicine and surgery October 1, 1912. He joined the Medical Corps of the British Expeditionary Forces July 3, 1917, and was attached to the 43d Field Artillery, Sixth Division. He later became medical officer for the 6th King's Yorkshire Light Infantry. March 21, 1918, while attached to the 18th Field Artillery of the Sixth Division, he was captured by the Germans at an advanced dressing station near Cambrai. From June to December he was in charge of allied prisoners at Prison Lazarette, Tuchel, West Prussia. He was repatriated December 1, 1918, and was transferred to the American Expeditionary Forces, and attached to Camp Hospital 50. His military service terminated July 26, 1919, when he returned to St. Paul. He is a member of the Ramsey County Medical Society, the Minnesota State Medical Association, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Daisy Thomson June 26, 1919. His address is 846 Lowry Building, St. Paul, Minnesota.

John S. Abbott

Bibliography.—1. Prison life in retrospect. Tr. Res. and Ex-Res. Phys. Mayo Clinic, 1923, iv, 103–115.

Abrams, Wilmer D., M.D., was born November 13, 1891 in Ebensburg, Pennsylvania; attended Bethany College, Bethany, West Virginia, from 1912 to 1915; received the degree of M.D. from the University of Pennsylvania in 1919; was intern from July, 1919 to July, 1920, and admitting physician and in charge of the out-patient department of the Allegheny General Hospital, Pittsburgh, from September, 1920 to March, 1921. He entered The Mayo Foundation April 1, 1921 as a fellow in surgery; his services included postoperative treatment, three months; general diagnosis, nine months; orthopedic surgery, three months; surgery, one year; surgical pathology, three months; regional anesthesia, three months, and urology, three months. He left The Mayo Foundation May 1, 1924 to enter practice in Mansfield, Ohio. He is a member of the Heisler Anatomical Society, the Meeker Biochemical Society, the Ernest La Place Surgical Society, the Atolemy Society, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Phi Beta Pi. He married Helen C. Speedy July 16, 1921. His address is 404 Walpark Building, Mansfield, Ohio.

Wilmer D. Abrams

Adams, S. Franklin, M.D., was born July 27, 1896 in Jersey City, New Jersey; attended the University of Pennsylvania from 1914 to 1915, and Wesleyan University, Middletown, Connecticut, from 1915 to 1916; received the degree of M.D. from the New York Homeopathic Medical College, New York, in 1920; was intern in the Buffalo Homeopathic Hospital from June, 1920 to July, 1921, and practiced in Jersey City, New Jersey, from July 1 to September 15, 1921. He entered The Mayo Foundation September 28, 1921 as a fellow in medicine; his services have included general diagnosis, three years and nine months, and metabolism, six months. He was appointed first assistant in a section of the Division of Medicine in October, 1922, and associate in July, 1925; he is an instructor in medicine, The Mayo Foundation, Graduate School, University of Minnesota. He is a member of

S. Franklin Adams

the Olmsted County Medical Society, the Minnesota State Medical Association, the American Medical Association, the Association of Resident and Ex-Resident Physicians of The Mayo Clinic, and Sigma Xi. He married Ethel S. Greene November 6, 1920. His address is Rochester, Minnesota.

Bibliography. 1. Clinical observations on insulin. Jour. Metab. Res., 1922, ii, 701–728. (With R. M. Wilder, W. M. Boothby, C. J. Barborka, and H. D. Kitchen.)
2. Food mixtures suitable for diabetic patients receiving insulin and a method for calculating diets. Med. Clin. N. Amer., 1923, vii, 13–24.
3. The surgical risk of the diabetic patient. Surg. Clin. N. Amer., 1924, iv, 587–593. (With R. M. Wilder.)
4. The present status of the diabetic patient as a surgical risk. Wisconsin Med. Jour., 1924, xxii, 557–561. (With R. M. Wilder.)
5. Insulin therapy in diabetes mellitus. Med. Woman's Jour., 1924, xxxi, 160–163.
6. Three cases of pernicious anemia and diabetes mellitus with a note on the apparent ineffectiveness of insulin in the presence of a profound anemia. Med. Clin. N. Amer., 1925, viii, 1163–1170.
7. Diabetes in the practice of otolaryngology. Arch. Otolaryngol., 1925, i, 181–185. (With B. E. Hempstead.)
8. Is disease of the gallbladder a cause of diabetes mellitus? Surg., Gynec., and Obst., 1925, xli, 75–78.
9. Spectrophotometric analysis of commercial insulin. Am. Jour. Physiol., 1925, lxxiv, 309–313. (With E. J. Baldes.)
10. The blood in cases of hypertension. The relationship between anemia and renal insufficiency. Ann. Clin. Med., 1926, iv, 463–467. (With G. E. Brown.)
11. The association between diabetes mellitus and chronic infectious arthritis. Jour. Am. Med. Assn., 1926, lxxxvi, 535–536. (With E. O. G. Schmitt.)
12. Surgery in the presence of diabetes. Jour. Am. Med. Assn., 1926, lxxxvi, 1107–1110. (With R. M. Wilder and E. S. Judd.)
13. The seasonal variation in the onset of acute diabetes; the age and sex factors in 1000 diabetic patients. Arch. Int. Med., 1926, xxxvii, 861–864.

Adson, Alfred W., B.Sc., M.A., M.D., M.S. in Surgery, F.A.C.S., was born March 13, 1887, at Terrill, Iowa; received the degree of B.Sc. in 1912 and M.A. in 1918 from the University of Nebraska, of M.D. from the University of Pennsylvania in 1914, and of M.S. in Surgery from the University of Minnesota in 1918. He assisted Doctors Wilson and Smith, of Wallace, Idaho, for five months in 1913. He entered the Mayo Clinic July 1, 1914, as a fellow in surgery; his services included surgical diagnosis, six months; surgery, two years. January 1, 1917 he became a member of the permanent staff, and is now head of the Section on Neurology, Division of Surgery, Mayo Clinic. He is associate professor in surgery, The Mayo Foundation Graduate School, University of Minnesota. During the war he was First Lieutenant in the Medical Reserve Corps, U. S. A. In 1922 he was commissioned Major in the Officers Reserve Corps. He is a member of the Olmsted County Medical Society, the Southern Minnesota Medical Association, the Minnesota State Medical Association, the Minnesota State Neurological Association, the Western Surgical Association, the Central Neuropsychiatric Association, the American Society of Neurological Surgeons, the American Medical Association, the American Microscopical Association, the American College of Surgeons, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Sigma Xi, an honorary fellow of the Seattle Surgical Society, and an honorary member of the Minneapolis Surgical Society. He married Lora Smith August 3, 1911. His address is Rochester, Minnesota.

Alfred W. Adson

Bibliography.—1. Spina bifida—its operative treatment. St. Paul Med. Jour., 1917, xix, 357–363. (With E. H. Beckman.)

2. Intratracheal anesthetic machine. Jour. Am. Med. Assn., 1918, lxx, 1746–1747.
3. Hypophysial tumors through the intradural approach. Jour. Am. Med. Assn., 1918, lxxi, 721–726.
4. The surgical treatment of progressive ulnar paralysis. Minn. Med., 1918, i, 455–460.
5. Preoperative procedures; operating room technic; postoperative procedures. Rochester, Minn., Schmidt, June, 1918.
6. Results of the surgical treatment of spinal cord tumors. Minn. Med., 1919, ii, 205–210.
7. Head rests for neurological operations. Jour. Am. Med. Assn., 1919, lxxiii, 1282–1283. (With G. G. Little.)
8. A clinical study of nerve anastomosis. Ann. Surg., 1919, lxx, 157–168.
9. Cutting the sensory root of the gasserian ganglion for the relief of trifacial neuralgia. Surg., Gynec., and Obst., 1919, xxix, 334–339.
10. Observations on intratracheal anesthesia in neurologic surgery. Am. Jour. Surg., Anesthesia Supplement, 1919, xxxiii, 123.

11. The surgical treatment of gummatous osteitis of the skull. Jour. Am. Med. Assn., 1920, lxxiv, 385–387.
12. The surgical treatment of brain abscess. Jour. Am. Med. Assn., 1920, lxxv, 532–536.
13. Palliative treatment versus the radical treatment of trifacial neuralgia. Minn. Med., 1920, iii, 169–174.
14. Surgery of spinal cord tumors. Jour.-Lancet, 1920, xl, 637–638.
15. The surgical aspects of injuries of the brachial plexus. New York State Jour. Med., September, 1921, 331–337.
16. Treatment of brain tumors. Surg. Clin. N. Amer., 1921, i, 1343–1361.
17. The gross pathology of brachial plexus injuries. Surg., Gynec., and Obst., 1922, xxxiv, 351–357.
18. Preservation of the motor root of the gasserian ganglion during the division of the sensory root for trifacial neuralgia. Surg., Gynec., and Obst., 1922, xxxv, 352–355.
19. Head rest for ganglion operation. Jour. Am. Med. Assn., 1922, lxxix, 301. (With G. G. Little.)
20. Treatment of brachial plexus injuries. Northwest Med., 1922, xxi, 33–38.
21. Surgery as a therapeutic agent in the treatment of neurologic lesions. Northwest Med., 1922, xxi, 312–315.
22. Results of the removal of tumors of the spinal cord. Arch. Neurol. and Psychiat., 1922, viii, 520–537. (With W. O. Ott.)
23. Trifacial neuralgia and its treatment. Northwest Med., 1923, xxii, 156–160.
24. The diagnosis and treatment of tumors of the spinal cord, involving the conus and cauda equina. New Orleans Med. and Surg. Jour., 1923, lxxvi, 169–172. (With W. O. Ott.)
25. Preservation of the facial nerve in radical treatment of parotid tumors. Arch. Surg., 1923, vi, 739–746. (With W. O. Ott.)
26. A study of ventriculography. Radiology, 1924, ii, 65–73. (With W. O. Ott and A. S. Crawford.)
27. Tumors of the spinal cord: surgical treatment and results. Minn. Med., 1924, vii, 79–83.
28. Pseudobrain abscess. Surg. Clin. N. Amer., 1924, iv, 503–512.
29. Trifacial neuralgia, its symptoms, diagnosis, and treatment. Illinois Med. Jour., 1924, xlv, 262–266; also Jour. Iowa State Med. Soc., 1924, xiv, 17–20.
30. Spinal cord tumors. (Editorial.) Surg., Gynec., and Obst., 1924, xxxix, 109–110.
31. The surgical treatment of glossopharyngeal neuralgia. Arch. Neurol. and Psychiat., 1924, xii, 487–506.
32. A clinical discussion on ramisection. Minn. Med., 1925, viii, 275–277.
33. Diagnosis and treatment of tumors of the spinal cord. Northwest Med., 1925, xxiv, 309–317; also Arch. francobelges de Chir., 1925, xxviii, 125–139.
34. Treatment of Raynaud's disease by lumbar ramisection and ganglionectomy, and perivascular sympathetic neurectomy of the common iliacs. Jour. Am. Med. Assn., 1925, lxxxiv, 1908–1910. (With G. E. Brown.)
35. Calorimetric studies of the extremities following lumbar sympathetic ramisection and ganglionectomy. Am. Jour. Med. Sc., 1925, clxx, 232–240. (With G. E. Brown.)
36. Ramisection for spastic paralysis. Surg. Clin. N. Amer., 1925, v, 777–789.
37. Compression of the spinal cord and its roots by hypertrophic osteo-arthritis; diagnosis and treatment. Surg., Gynec., and Obst., 1925, xli, 1–14. (With H. L. Parker.)
38. Surgical treatment of facial paralysis. Arch. Otolaryngol., 1925, ii, 217–249.
39. Bilateral lumbar sympathetic neurectomy in the treatment of malignant hypertension: report of a case. Jour. Am. Med. Assn., 1925, lxxxv, 959–961. (With L. G. Rowntree.)
40. Neuralgias. Chap. in Textbook of American authors. Phila., Saunders, 1926. (In press.)
41. Abscess of the spinal cord: Report of a case with some functional recovery after operation. Brain, 1926, xlix, 193–206. (With H. W. Woltman.)
42. Surgical removal and pathologic study of a massive squamous-cell epithelioma associated with angioma of the scalp. Surg., Gynec., and Obst., 1926, xlii, 846–848. (With D. S. Pulford.)
43. A corneal shield. Jour. Am. Med. Assn., 1926, lxxxiii, 1835. (With A. A. Schroeder.)

Allen, F. McJunkin, M.D., was born April 12, 1895, in Keisters, Pennsylvania; attended Grove City College, Pennsylvania, from 1913 to 1914; received the degree of M.D. from the University of Michigan in 1918, and served as First Lieutenant in the Naval Hospital, Pensacola, Florida, from July, 1918 to June, 1919. He entered The Mayo Foundation June 24, 1919 as a fellow in otolaryngology; his services included oral and plastic surgery and laryngology, fifteen months, and neurology, three months. He was appointed intern in the Naval Hospital, Washington, D. C., in January, 1921, resigning in September, 1922 to enter professional practice in Washington, D. C. He spent the winter of 1921 to 1922 in graduate work at Harvard Medical School, Boston. He is a member of the Hippocrates Galen Medical Society, the Ear, Nose, and Gland Society of the District of Columbia, the Medical Society of the District of Columbia, and the American Medical Association. His address is Army and Navy Club, Washington, D. C.

F. McJunkin Allen

Amberg, Samuel, M.D., was born August 15, 1874, at Cannstatt, Germany, attended the Gymnasium at Cannstatt, Germany; took premedical courses at the University of Berlin; received the degree of M.D. from the University of Heidelberg in 1898; practiced in Baltimore from 1900 to 1912, and was assistant to the associate professor of pediatrics at Johns Hopkins Medical School from 1899 to 1912; for two years he was in charge of the Department on Pediatrics. From 1912 to 1921 he was associate professor of experimental medicine at Rush Medical College, and director of the laboratory of the Children's Memorial Hospital, Otho S. A. Sprague Memorial Institute, Chicago. He came to the Mayo Clinic January 1, 1921 as an associate in pediatrics, and became associate professor of pediatrics, The Mayo Foundation, Graduate School, University of Minnesota. He is a member of the Olmsted County Medical Society, the Minnesota State

Samuel Amberg

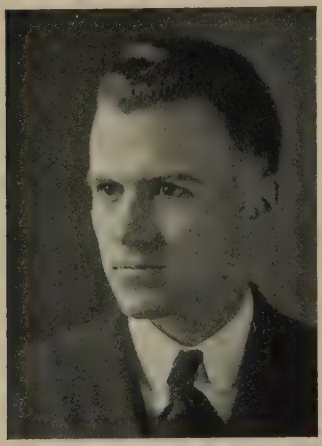
Medical Association, the Central States Pediatric Association, the American Physiological Society, the American Pharmacological Association, the American Biochemical Association, the Society of Experimental Biology, the Northwest Pediatric Society, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and corresponding member of Gesellschaft für innere Medizin und Kinderheilkunde (Vienna). His address is Rochester, Minnesota.

Bibliography.—1. Ein Fall von Echinococcus der Milz. Wien. med. Wchnschr., 1898, xlviii, 2073–2076.
2. Ein Beitrag zur Lehre von den Gynatresieen. Heidelberg, J. Hörning, 1899, 73 pp.
3. Eight cases of goiter in one family. Maryland Med. Jour., 1901.
4. An unusual case of spasmus nutans. Arch. Pediat., 1901, xviii, 831–836.
5. A contribution to the study of amœbic dysentery in children. Bull. Johns Hopkins Hosp., 1901, xii, 355–363.
6. Ueber die Toxicität des wirksamen Princips der Nebennieren. Arch. internat. de Pharmacol., 1902, xi, 57–100.
7. Sublingual growth in infants (produzione sottolinguale, Riga's disease, Febe's disease, etc.). Am. Jour. Med. Sc., 1903, cxxvi, 257–269.
8. Primary malignant tumor of both adrenal glands in a child of two months, with secondary affection of the liver. Arch. Pediat., 1904, xxi, 582–593.
9. On the precipitin reaction of human and cow's lacto- and caseo-sera. Jour. Med. Res., 1904, xii, 341–358.
10. A method for the determination of hydrogen peroxide in milk together with some observations on the preservation of milk by this substance. Jour. Biol. Chem., 1905–1906, i, 219–228.
11. The opsonic content of the blood of infants. Jour. Am. Med. Assn., 1907, xlviii, 304–308.
12. Exhibition of a case of cerebral palsy. Bull. Johns Hopkins Hosp., 1907, xviii, 139.
13. On the excretion of creatinin in the newborn infant. Jour. Biol. Chem., 1907–1908, iii, 311–320. (With W. P. Morrill.)
14. A study of the metabolism of a breast-fed infant, with special reference to the ammonia coefficient. Proc. Am. Soc. Biol. Chem., 1908, p. xxxv. (With W. P. Morrill.)
15. Further observations on the inhibiting effect of fluorides on the action of lipase together with a method for the detection of fluorides in food products. Jour. Biol. Chem., 1908, iv, 149–164. (With A. S. Loevenhart.)
16. Ein Stoffwechselversuch an einem Brustkinde mit besonderer Berücksichtigung des Ammoniakkoeffizienten. Jahrb. f. Kinderh., 1909, lxix, 280–303. (With W. P. Morrill.)
17. Bleeding from the intestinal tract of an infant in the course of alimentary decomposition in the sense of Finkelstein; a clinical note. Bull. Johns Hopkins Hosp., 1909, xx, 323.
18. On the excretion of creatinin in the infant with some notes regarding its occurrence in amniotic fluid. Bull. Johns Hopkins Hosp., 1910, xxi, 40–44. (With L. G. Rowntree.)
19. The cutaneous trychophytin reaction. Jour. Exper. Med., 1910, xii, 435–459.
20. In regard to the detoxification of benzoic acid by optical isomers of leucin. Jour. Pharmacol. and Exper. Therap., 1910–1911, ii, 59–72. (With A. H. Koelker.)
21. On the application of the optical method to a study of the enzymatic decomposition of nucleic acids. Jour. Biol. Chem., 1911, x, 81–87. (With W. Jones.)

22. Ueber die bei der Spaltung der Nucleine in Betracht kommenden Fermente mit besonderer Berücksichtigung der Bildung von Hypoxanthin in der Abwesenheit von Adenase. Ztschr. f. physiol. Chem., 1911, lxxiii, 407–415. (With W. Jones.)
23. The catalase of sea urchin eggs before and after fertilization with especial reference to the relation of catalase to oxidation in general. Jour. Biol. Chem., 1911, x, 295–302. (With M. C. Winternitz.)
24. Hippuric acid in the urine of normal breast-fed intanfs. Am. Jour. Dis. Child., 1911, ii, 248–251. (With J. H. M. Knox, Jr.)
25. The influence of sodium iodoxybenzoate and sodium cyanide upon an allergic reaction of inflammatory character. Jour. Pharmacol. and Exper. Therap., 1911–1912, iii, 223–266. (With J. H. M. Knox, Jr.)
26. Influence of sodium iodoxybenzoate on reactions of inflammatory character. Jour. Am. Med. Assn., 1912, lix, 1598-1599.
27. The effect of the prevention of laking on the catalytic activity of the blood. Bull. Johns Hopkins Hosp., 1912, xxiii, 120–123. (With A. Strauss.)
28. The influence of feeding iodides on the catalytic cavity of the rabbit's blood. Bull. Johns Hopkins Hosp., 1912, xxiii, 51–53. (With A. Strauss.)
29. The action of yeast on yeast nucleic acid. Jour. Biol. Chem., 1912–1913, xiii, 441–446. (With W. Jones.)
30. Ueber das Vorkommen der Hippursäure in Säuglingsharn. Ztschr. f. Kinderh., 1913, Orig., ix, 6–10. (With H. F. Helmholz.)
31. Weiterer Untersuchungen über den Einfluss der Jodbenzoesäure-Reihe auf entzündliche Reaktionen. Ztschr. f. d. ges. exper. Med., 1913, ii, 19–28.
32. Ueber die Beziehungen des Harngiftes zur Anaphylaxie. Ztschr. f. d. ges. exper. Med., 1913, ii, 29–37. (With P. S. Chancellor.)
33. The relation between the allergic intracutaneous reaction and the symptoms of anaphylaxis. Jour. Infect. Dis., 1914, xv, 541–548. (With Grace L. Meigs.)
34. Ueber die diastatische Wirkung des Kinderharns. Ztschr. f. Kinderh., 1914, Orig., xi, 483–496. (With W. B. McClure and P. S. Chancellor.)
35. The fatal dose of various substances on intravenous injection in the guinea-pig. Jour. Pharmacol. and Exper. Therap., 1914–1915, vi, 595. (With H. F. Helmholz.)
36. The influence of clothing on the surface temperature of infants. Jour. Dis. Child., 1915, x, 425–435. (With W. B. McClure and L. W. Sauer.)
37. Parapneumonic empyema. Am. Jour. Dis. Child., 1916, xi, 33–44. (With L. Gerdine.)
38. The permanganate reduction index of cerebrospinal fluid. Arch. Int. Med., 1916, xvii, 293–302. (With W. O. Hoffmann and A. B. Schwartz.)
39. The clinical study of edema by means of the elastometer. Arch. Int. Med., 1916, xvii, 396–404. (With A. B. Schwartz.)
40. Studies of edema in pneumonia. Arch. Int. Med., 1916, xvii, 459–464. (With Mary E. Maver and A. B. Schwartz.)
41. Simultaneous injections of streptococci and dahlia in the guinea-pig. Jour. Infect. Dis., 1916, xviii, 353–357. (With W. H. Hoffmann, W. B. McClure, and L. W. Sauer.)
42. Is citric acid present in normal urine? Tr. Chicago Path. Soc., 1916–1917, x, 195. (With W. B. McClure.)
43. The nonprotein nitrogen of the blood in atrophic infants. Am. Jour. Dis. Child., 1917, xiii, 397–403. (With L. D. Minsk and L. W. Sauer.)
44. The intradermal reactions to proteins of infants suffering from gastro-enteric disorders. Arch. Pediat., 1917, xxxiv, 810–817. (With V. D. Greer.)
45. The occurrence of citric acid in urine. Am. Jour. Physiol., 1917, xliv, 453–463. (With W. B. McClure.)
46. The influence of oxygen upon inflammatory reactions. Jour. Pharmacol. and Exper. Therap., 1917–1918, x, 209–236. (With A. S. Loevenhart and W. B. McClure.)

47. The detoxifying action of sodium salt on potassium salt in the guinea-pig. Jour. Pharmacol. and Exper. Therap., 1918, xii, 19–35. (With H. F. Helmholz.)
48. Observations regarding the loss of water vapor through the skin in infants. Arch. Int. Med., 1918, xxi, 428–436. (With W. B. McClure and L. W. Sauer.)
49. Some further notes on the detoxification of potassium chloride in the guinea-pig. Am. Jour. Pharmacol., 1918, xlv, 572–573. (With H. F. Helmholz.)
50. Clothing of infants in summer and winter. Am. Jour. Dis. Child., 1919, xviii, 51–68. (With L. W. Sauer.)
51. Water retention in pneumonia. Am. Jour. Dis. Child., 1920, xix, 337–343. (With H. O. Lussky and H. Friedstein.)
52. Elephantiasis congenita angiomatosa (Unna): Associated with changes in the capillaries. Am. Jour. Dis. Child., 1920, xx, 127–131. (With M. K. Miller and K. M. Nelson.)
53. The influence of intravenous injections of acacia-glucose solutions on urine excretion and blood volume in rabbits. Jour. Pharmacol. and Exper. Therap., 1920–1921, xvi, 391–400. (With P. M. Mathill, Katherine Mayer, and L. W. Sauer.)
54. The presence of sugar in the urine of newborn infants before the intake of foods. Am. Jour. Dis. Child., 1921, xxi, 484–487. (With Frances Millikin.)
55. Observations on the capillaries of the normal infant. Am. Jour. Dis. Child., 1921, xxii, 381–387. (With Katherine M. Mayer.)
56. The isolation of a substance from urine having properties of citric acid; description of an apparatus facilitating the working with small volumes of gas. Am. Jour. Physiol., 1922, lx, 564–573. (With Mary E. Maver.)
57. The adaptation of the pentabromacetone method to the quantitative determination of citric acid in the urine. Jour. Biol. Chem., 1922, liii, 357–363. (With W. B. McClure.)
58. Comparison of pentabromacetone method and Salant and Wise's method for citric acid determination in urine. Am. Jour. Physiol., 1922, lxii, 140–144. (With W. B. McClure and L. W. Sauer.)
59. The presence of formic acid in the urine of infants and older children. Am. Jour. Dis. Child., 1922, xxiii, 419–422. (With M. D. McNeal and C. J. Eldridge.)
60. The male sexual gland in the prevention of creatinuria. Am. Jour. Med. Sc., 1922, clxiv, 222–227. (With M. D. McNeal.)
61. Some aspects of enuresis in children. Med. Clin. N. Amer., 1923, vii, 151–162.
62. The accessory nasal sinuses as foci of infection in children. Minn. Med., 1923, vi, 547–550.
63. Das Verhältnis des Harndrangs zur Blasenkontraktion bei Enuresis der Kinder. Ztschr. f. Kinderh., 1924, xxxviii, 169–181.
64. Certain aspects of enuresis. Jour. Am. Med. Assn., 1924, lxxxiii, 1300–1304.
65. The urine in infancy and childhood. Chap. 103 in Abt's Pediatrics, Philadelphia, W. B. Saunders Co., 1924, iv, 1032–1136.
66. Relations between contraction of bladder and impulse for urination in enuresis in children. Ztschr. f. Kinderh., 1924, xxxviii, 169–181.
67. Training the child's physical functions. Hygeia, 1925, iii, 699–700.
68. The presence of diphtheria bacilli in the nasal cavity of the newborn. Minn. Med., 1926, ix, 341–342.
69. The rate of filtration of some aqueous protein solutions. Am. Jour. Physiol., 1926 lxxvi, 197. (With Frances M. Sawyer.)
70. The rate of filtration of protein solutions, particularly of mucin. Jour. Pharmacol. and Exper. Therap., 1926, xxix, 339–354. (With Frances M. Sawyer.)

Anderson, Alan R., A.B., A.M., M.D., was born December 9, 1895 in Statesville, North Carolina; received the degree of A.B. in 1915 and of A.M. in 1916 from Trinity College, Durham, North Carolina; attended the University of North Carolina from 1919 to 1921; received the degree of M.D. in 1923 from the University of Pennsylvania, Philadelphia, and was intern at the Geisinger Memorial Hospital, Danville, Pennsylvania, from January, 1923 to January, 1924. During the war he served as Captain in the Infantry, Eighty-first division. He entered The Mayo Foundation October 1, 1924 as a fellow in medicine; his services thus far have included medical hospital service, nine months, and neurology, six months. He is a member of Phi Chi, Kappa Alpha (Southern), and Alpha Omega Alpha. His address is Rochester, Minnesota.



Alan R. Anderson

Anderson, Carl M., M.D., was born November 7, 1881, in Waupaca, Wisconsin; received the degree of M.D. from Marquette University, Milwaukee, in 1911; practiced at Wild Rose, Wisconsin, from 1911 to 1921, and during the war was commissioned First Lieutenant in the Medical Reserve Corps, but was never in active service. He entered The Mayo Foundation January 3, 1921 as a special student in laryngology; his services have included laryngology, oral and plastic, one year, and otolaryngology, four years. He was appointed first assistant in the Section on Otolaryngology and Rhinology, Mayo Clinic, in January, 1924, and is an instructor in otolaryngology, The Mayo Foundation, Graduate School, University of Minnesota. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Mabel J. Larson November 18, 1911. His address is Rochester, Minnesota.

Carl M. Anderson

Bibliography.—1. Certain diagnostic problems in otology. Surg. Clin. N. Amer., 1925, v, 855–866. (With H. I. Lillie.)

Anderson, Clarence W., M.D., was born October 18, 1886 in Red Wing, Minnesota; received the degree of M.D. from the University of Louisville, Kentucky, in 1911; was intern in St. Joseph's Hospital, Louisville, Kentucky, six months, and in the Illinois Central Hospital, Paducah, Kentucky, two and one-half years, and practiced medicine in Wyoming two years. He came to the Mayo Clinic September 1, 1917 as an assistant in the Section on Roentgenology. He left on account of ill health, and died in Red Wing, Minnesota, December 28, 1918. He was a member of the Minnesota State Medical Association.

Anderson, Edward W., M.D., was born November 11, 1898 in Marion, Iowa; received the degree of M.D. in 1923 from the State University of Iowa, Iowa City, and was intern at the Iowa Methodist Hospital, Des Moines, in 1923 and 1924. He entered The Mayo Foundation January 1, 1925 as a fellow in medicine; his services thus far have included medical hospital service, nine months, and neurology, three months. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the Iowa State Medical Society, the American Medical Association, Alpha Kappa Kappa, and Alpha Omega Alpha. His address is Rochester, Minnesota.

Edward W. Anderson

Anderson, Frank W., B.S., M.D., was born February 12, 1885 in Boston; received the degree of B.S. from Dartmouth College, Hanover, New Hampshire, in 1908, and of M.D. from Harvard University, Cambridge, Massachusetts, in 1918; was intern in the roentgen-ray department of the Massachusetts General Hospital, Boston, from September, 1918 to October, 1919, and resident roentgenologist in the Harper Hospital, Detroit, nine months. He came to the Mayo Clinic in October, 1920 as an associate in the Section on Radium and Roentgen-ray Therapy. He died at Roslindale, Massachusetts, September 29, 1922, soon after leaving the Clinic. He was a member of the Massachusetts Medical Society.

Bibliography.—1. The treatment by radiation of cancer of the rectum. Am. Jour. Roentgenol. and Rad. Therap., 1923, x, 230–239. (With H. H. Bowing.)

Anderson, Gilbert C., B.A., M.D., was born December 11, 1885 in Jackson, Tennessee; received the degree of B.A. in 1905 from Union University, Jackson, Tennessee, and the degree of M.D. in 1917 from the College of Physicians and Surgeons, Columbia University; was intern at the New York City Hospital from June, 1917 to June, 1918, and at the New York Hospital for five months. He was in military service from 1918 to 1919, the United States Public Health Service in 1920, and practiced in New York City from 1921 to April 1, 1924, when he entered The Mayo Foundation as a fellow in neurologic surgery. His services thus far have included neurology, one year; Medical School at the University of Minnesota, three months; operative surgery, three months, and experimental pathology, three months. He is a member of Sigma Alpha Epsilon and Phi Rho Sigma. He married Mildred H. Moore July 27, 1921. His address is Rochester, Minnesota.

Gilbert C. Anderson

Bibliography.—1. Cranioplasty; indications, operation, and results. Southern Med. Jour., 1920, xiii, 719. (With J. E. J. King.)

Anderson, J. Gordon, B.S., M.D., was born December 29, 1893 in Westerly, Rhode Island; received the degree of B.S. in 1917 from Rhode Island State College, and the degree of M.D. in 1921 from Harvard University; was intern at the Boston City Hospital from March, 1921 to November, 1922, and entered The Mayo Foundation January 1, 1923 as a fellow in surgery. His services included general diagnosis, nine months; regional anesthesia, four months; surgical pathology, two months, and neurologic surgery, three months. He left The Mayo Foundation July 1, 1924, and practiced urology and general surgery in New York City until July, 1925. He is now practicing general surgery in Westerly, Rhode Island. His address is 23 Cross Street, Westerly, Rhode Island.

J. Gordon Anderson

Bibliography.—1. Elimination of morphin and other accessory drugs in operations under local anesthesia. Ann. Surg., 1925, lxxxi, 994–1001.

2. Novasurol: An effective agent in relieving the ascites complicating cirrhosis of the liver. Boston Med. and Surg. Jour., 1925, cxciii, 1234–1236.

Andres, Rudolph G., M.D., F.A.C.S., was born August 7, 1883 in Tomah, Wisconsin; received the degree of M.D. from Loyola University, Chicago, in 1905; was intern in Cook County Hospital, Chicago, from June, 1905 to December, 1906, and practiced in Cheney, Washington, from 1907 to 1917. He entered The Mayo Foundation in November, 1917 as a special student in surgery, and was appointed a fellow in surgery October 1, 1921; his services included laryngology, two months; orthopedics, three months; general diagnosis, eleven months; urology, three months; roentgenology, three months; postoperative care, three months, and surgery, thirty-one months. He left The Mayo Foundation July 1, 1922 and practiced surgery in St. Paul for eight months. He is now at Spokane, Washington. He is a member of the American College of Surgeons, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Nellie M. Fisher July 20, 1910. His address is 304–307 Paulsen Building, Spokane, Washington.

Rudolph G. Andres

Bibliography.—1. Surgery of biliary tract in presence of jaundice. Northwest Med., 1924, xxiii, 563–566.

Andrews, Clayton F., Ph.G., M.D., M.S. in Surgery, was born January 4, 1891 in St. Paul, Nebraska; received the degree of Ph.G. from Creigton University, Omaha, in 1909; attended the University of Nebraska from 1911 to 1912; received the degree of M.D. from the University of Pennsylvania in 1916, and of M.S. in Surgery from the University of Minnesota in 1922, and was intern in the Germantown Hospital, Philadelphia, eighteen months, from 1916 to 1917. From August, 1917 to July, 1919 he served as First Lieutenant, Medical Corps, U. S. A., stationed at Camp Cody, New Mexico, Camp Dix, New Jersey, and with the A. E. F. at Cannes Base Hospital 93. He entered The Mayo Foundation October 1, 1919 as a fellow in surgery; his services included general diagnosis, one year; gynecology, six months (part time);

Clayton F. Andrews

general surgery, two years; roentgenology, two and one-half months (part time); postoperative care, three months, and surgical pathology, six months. He left The Mayo Foundation July 26, 1923, and is now in practice in Lincoln, Nebraska. He is a member of the American Medical Association and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Mildred R. Wells August 28, 1919. His address is 627 Security Mutual Building, Lincoln, Nebraska.

Bibliography.—1. Symposium on experimental surgical studies. I. Surgical research of the great omentum. Surg., Gynec., and Obst., 1917, xxiv, 474–479. (With S. L. Bloomhardt and R. R. Hetherington.)
2. Primary retroperitoneal sarcoma. Report of twenty-eight cases. Surg., Gynec., and Obst., 1923, xxxvi, 480–485.
3. Gallbladder disease. Nebraska State Med. Jour., 1925, x, 365–370.

Archibald, Alexander, M.B.Ch.B., was born January 8, 1886 in Ireland; attended Coleraine Academical Institution, Ireland, from 1898 to 1904; received the degree of M.B.Ch.B. from the University of Edinburgh in 1910, and was intern at the Stockport Infirmary, England, from 1910 to 1911. He came to the Mayo Clinic April 1, 1911, and was assistant in the Division of Medicine for five years and seven months, associate for one year and two months, and head of a clinical section for seven months. He left the clinic June 20, 1917, for military service, and returned in September, 1919, resuming his work in the Division of Medicine. He left the clinic in September, 1920, to establish a practice in Renfrew, Scotland. He is a member of the British Medical Association and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Letitia Marshall March 5, 1918. His address is Rusarenal, Cambridge Road, Renfrew, Scotland.

Alexander Archibald

Bibliography.—1. The presence, type, and possible significance of lactose-fermenting bacilli in surface waters and in the feces of man and certain domestic animals in the Sudan, together with a consideration of the effects of sunlight and earth burial on these organisms. Rep. Wellcome Trop. Research Lab., 1911, iv, 319–334.
2. Sacrococcygeal sinus (postanal dermoid): A review of thirty-one cases. Arch. Diagn., 1912, v, 135–142. (With H. Z. Giffin.)
3. Tonsillectomy in the treatment of chorea. St. Paul Med. Jour., 1914, xvi, 610–615.
4. The transfusion of blood in the treatment of pernicious anemia. St. Paul Med. Jour., 1917, xix, 43–47.
5. Aplastic anemia. Med. Clin. N. Amer., 1919, iii, 757–764.
6. Surgery of the spleen. In Ochsner's: Surgical diagnosis and treatment. Philadelphia, Lea & Febiger, 1921, ii, 501–558. (With W. J. Mayo.)

Arrasmith, William J., M.D., was born September 23, 1888 in Underwood, Iowa; attended the University of Nebraska from 1907 to 1908; received the degree of M.D. from Creighton University, Omaha, Nebraska, in 1913; was intern in the Douglas County Hospital, Omaha, from March 1, 1912 to May 1, 1914, and practiced medicine from October, 1914 to December, 1918 at Palmer, Nebraska. He entered The Mayo Foundation December 15, 1918 as a fellow in surgery; his services included general diagnosis, seven and one-half months; orthopedics, two months; roentgenology, three months; surgical pathology, six months; surgery, fifteen months, and urology, three months. He left The Mayo Foundation December 15, 1921, and is now practicing surgery at Grand Island, Nebraska. He is a member of Hall County Medical Society, the Nebraska State Medical Association, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Jean L. Minnich August 25, 1915. His address is Hedde Building, Grand Island, Nebraska.

William J. Arrasmith

Bibliography.—1. Some surgical diseases of the right kidney. Nebraska State Med. Jour., 1924, ix, 99–104.

2. Œsophageal diverticula. Nebraska State Med. Jour., 1924, ix, 307–311.

Asbury, Eslie, B.S., M.D., was born November 19, 1895 in Carlisle' Kentucky; received the degree of B.S. in 1918 and of M.D. in 1920 from the University of Cincinnati; was intern in the Cincinnati General Hospital from March, 1920 to May, 1921, and practiced in Campbellsburg, Kentucky, during May and June, 1921. He entered The Mayo Foundation July 1, 1921 as a fellow in orthopedic surgery; his services included orthopedic diagnosis, fifteen months, with three months as first assistant; orthopedic surgery, one year; neurology, six months, and operative surgery, nine months. He left The Mayo Foundation July 1, 1924, and returned October 1, 1924, as resident physician at the Colonial Hospital for six months. He is now practicing orthopedic surgery in Cincinnati, and is on the staff of the Good Samaritan Hospital and the

Eslie Asbury

Cincinnati General Hospital and Medical School. He is a member of the Cincinnati Academy of Medicine, the Ohio State Medical Association, the American Medical Association, the Clinical Orthopedic Society of America, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Alpha Kappa Kappa. He married Dr. Mary S. Knight January 2, 1923. His address is 31 Vindonissa Building, 19 West Seventh Street, Cincinnati, Ohio.

Bibliography.—1. Spondylolisthesis. Jour. Bone and Joint Surg. (In press.)

Ash, Wilfred A., B.S., M.D., was born February 10, 1897 in Atlantic, Iowa; received the degree of B.S. in 1922 and of M.D. in 1923 from Creighton University, Omaha, Nebraska; was intern at St. Joseph's Hospital in Omaha from June 5, 1923 to July 1, 1924, when he entered The Mayo Foundation as a fellow in medicine. His services thus far have included general diagnosis, six months; dermatology and syphilology, three months; medical hospital service, six months, and neurology, three months. He left the Clinic October 1, 1926 and is practicing in Manhattan, Kansas. He is First Lieutenant in the Medical Officers' Reserve Corps. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the American Medical Association, and Phi Beta Pi. His address is 426 Houston Street, Manhattan, Kansas.

Wilfred A. Ash

Ashby, Winifred M., B.S., M.S. (Biology), Ph.D. (Immunology), was born October 13, 1879 in London, England; attended Northwestern University, Chicago, from 1899 to 1900; received the degree of B.S. from the University of Chicago in 1903 and of M.S. (Biology) from Washington University, St. Louis, in 1905; attended Rush Medical College, University of Chicago, four quarters during 1914 and 1916, and received the degree of Ph.D. from the University of Minnesota in 1921. From 1904 to 1906 she was special agent for the U. S. Bureau of Plant Industry; from 1905 to 1906 did special work at the University of Chicago in plant physiology under Dr. Barnes, and in chemistry under Dr. Neff and Dr. Stieglitz; did research work on infant mortality, in coöperation with the Bureau of Health, Manila, Philippine Islands, from 1900 to 1908; was engaged in social service at the Northwestern University Settlement from 1909 to 1910; taught physics in the high school at Berwyn, Illinois, from 1910 to 1912, and physics and chemistry at Marysville, Missouri, from 1912 to 1914, and did laboratory work at Rush Medical College and the Illinois Central Hospital, Chicago, in 1916. She entered The Mayo Foundation February 1, 1917 as a fellow in immunology; her services included anatomy, three months; clinical bacteriology, two months; laboratory medicine, three months (the latter two courses at the University of Minnesota, Minneapolis), and experimental bacteriology, three years and eight months. In June, 1921 she was appointed assistant in the Division of Experimental Bacteriology, Mayo Foundation, and January 1, 1923 she was appointed assistant in research in the Division of Medicine, Mayo Clinic. She left the Mayo Clinic April 1, 1924, and is now medical bacteriologist at St. Elizabeth's Hospital in Washington, D.C. She is a member of the American Immunological Society. Her address is St. Elizabeth's Hospital, Washington, D. C.

Winifred M. Ashby

Bibliography.—1. Some data on the range of life of transfused blood corpuscles in persons without idiopathic blood diseases. Med. Clin. N. Amer., 1919, iii, 783–799.

2. The determination of the length of life of transfused blood corpuscles in man. Jour. Exper. Med., 1919, xxix, 267–281.

3. Focal infection and elective localization in the etiology of myositis. Arch. Int. Med., 1921, xxviii, 274–311. (With E. C. Rosenow.)

4. Study of transfused blood. I. The periodicity in eliminative activity shown by the organism. Jour. Exper. Med., 1921, xxxiv, 127–146.

5. Study of transfused blood. II. Blood destruction in pernicious anemia. Jour. Exper. Med., 1921, xxxiv, 147–166.

6. The effect of the digestive period and other factors in reactions after blood transfusions. New York Med. Jour., 1921, cxiii, 513–517. (With J. L. Butsch.)
7. A study of the mechanism of change in resistance of erythrocytes to hypotonic salt solutions. I. The effect of artificial anemia, and of the treatment of red cells with various blood protein fractions. Am. Jour. Physiol., 1924, lxviii, 239–249.
8. A study of the mechanism of change in resistance of erythrocytes to hypotonic salt solution. II. Quantitative study of the effect of cations on human red blood corpuscles. Am. Jour. Physiol., 1924, lxviii, 250–261.
9. A study of the mechanism of change in resistance of erythrocytes to hypotonic salt solution. III. A study of the cause of effects produced by cations on the resistance of red corpuscles previously described. Am. Jour. Physiol., 1924, lxviii, 585–610.
10. A study of the mechanism of change in resistance of erythrocytes to hypotonic salt solution. IV. On a radical difference in the effect of univalent cations with reference to resistance of the corpuscles of certain animals, which is associated with differences in the normal metal content of the respective corpuscles; and the similarity of the effect of the bivalent cations. Am. Jour. Physiol., 1924, lxviii, 611–621.
11. The present status of the question of the length of life of the unagglutinable transfused red blood corpuscles. Arch. Int. Med., 1924, xxxiv, 481–489.
12. Blood volume. I. A method for determining whole blood volume based on the circulating corpuscle volume. Arch. Int. Med., 1925, xxxv, 516–526.
13. Blood volume. II. A comparison between total blood volumes determined by plasma volume methods and by a new corpuscle volume method. Arch. Int. Med., 1925, xxxv, 632–640.
14. Blood volume. III. Apparent changes in blood volume induced by transfusion, and their bearing on methods of determining blood volume by means of the degree of change in a constituent of the blood, following transfusion of a known amount of that constitutient. Arch. Int. Med., 1925, xxxv, 641–649.
15. Blood volume. IV. Diurnal fluctuations in blood volume and change incident to transfusion reaction. Arch. Int. Med., 1925, xxxv, 726–732.
16. Blood volume. V. The effect of treatment on the blood volume of patients with pernicious anemia. Arch. Int. Med., 1925, xxxv, 733–739.
17. Blood volume. VI. The relationship between blood volume, total corpuscle content, and alkaline reserve in cases of pernicious anemia. Arch. Int. Med., 1925, xxxvi, 24–30.

Aud, Francis G., B.A., M.D., F.A.C.S., was born August 29, 1887 in Cecilia, Kentucky; received the degree of B.A. from St. Xavier's College, Louisville, Kentucky, in 1905, and of M.D. from Louisville University in 1909; was intern in the Out-patient Department of the New York Lying-in Hospital in October and November, 1909, in the New York Hospital for Relief of Ruptured and Crippled from January, 1910 to January, 1911, extern in the Children's Service Department of Bellevue Hospital, New York, from January to June, 1911, and chief resident physician in Sea-Side Hospital, New York, the following six months. He entered the Mayo Clinic December 28, 1911 as a fellow in surgery; his services included surgical pathology, two months; surgery, thirty-four months, and general diagnosis, five and one-half months. He has practiced general surgery since leaving the Mayo Clinic in June, 1915. During the war he served as Major in the Medical Corps, and was Commanding Officer at Base Hospital 210, A. E. F., Toul, France. He is a member of Jefferson County Medical Society, the Kentucky State Medical Association, the American College of Surgeons, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. His address is Francis Building, Louisville, Kentucky.

Francis G. Aud

Bibliography.—1. Anesthesia. Kentucky Med. Jour., 1916, xiv, 204.
2. Renal tuberculosis. Kentucky Med. Jour., 1917, xv, 99.
3. Gall-stones. Kentucky Med. Jour., May, 1917, xv.
4. How to lower the cancer rate. Kentucky Med. Jour., 1920, xviii, 343.
5. End-results following operations upon the bile passages. Kentucky Med. Jour., 1921, xix, 516.
6. Necessity of early diagnosis in cancer. Kentucky Med. Jour., 1921, xix, 806.
7. Downward dislocation of patella. Jour. Am. Med. Assn., 1922, lxxviii, 1457–1458.
8. Corrective rhinoplasty. Kentucky Med. Jour., 1923, xxi, 105–110.

Austen, Willard E., B.S., M.D., was born June 20, 1897 in Sharpsburg, Pennsylvania; received the degree of B.S. in 1917 and M.D. in 1921 from the University of Pittsburgh; and was intern for one year and resident pathologist for one year at the Mercy Hospital in Pittsburgh. He entered The Mayo Foundation October 1, 1923 as a fellow in medicine, and after fifteen months of service in general diagnosis he left the Foundation. He practiced for a few months in Aspinwall, Pennsylvania, and in New York City until January, 1926. He is now connected with the Jersey City Hospital. He is a member of the Allegheny County Medical Society, the Medical Society of the State of Pennsylvania, and the American Medical Association. His address is Jersey City Hospital, Jersey City, New Jersey.

Willard E. Austen

Austin, Louie T., D.D.S., was born April 11, 1891 in Madelia, Minnesota; received the degree of D.D.S. from the University of Minnesota in 1912, and practiced dentistry at Madelia, Minnesota, from 1912 to 1917. He came to the Mayo Clinic March 1, 1919 as an associate in the Section on Dental Surgery, and is an instructor in dental surgery, The Mayo Foundation, Graduate School, University of Minnesota. During the war he served as Captain, Dental Corps, at Camp Cody, at the Presidio, San Francisco, and at Fort Russell and Camp Dodge. He is a member of the Southeastern District Dental Society, the Minnesota State Dental Society, the National Dental Association, and an associate member of the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Daisy A. Christensen June 17, 1914. His address is Rochester, Minnesota.

Louie T. Austin

Bibliography.—1. Postoperative care of dental patients. Dental Cosmos, 1922, lxiv, 1187–1189.

Austin, Robert C., M.D., was born February 25, 1889 in Bellbrook, Ohio; attended Ohio Wesleyan University, Delaware, Ohio, two years; received the degree of M.D. from Ohio State University in 1913, and was intern at Mount Carmel Hospital, Columbus, Ohio, from 1913 to 1914. He entered the Mayo Clinic in March, 1914 as a fellow in surgery; his services included surgery, one year; surgical pathology, three months; orthopedics, ten months (six months in St. Paul under Dr. Gillette), and general diagnosis, one year. He left the Mayo Clinic April 1, 1917, to practice surgery in Dayton, Ohio. During the war he was Captain in the Medical Corps, A. E. F., stationed at Base Hospital 114. He is a member of the Montgomery County Medical Association, the Ohio State Medical Association, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. His address is 540 Fidelity Building, Dayton, Ohio.

Robert C. Austin

Bibliography.—1. Surgical indications in goiter. Ohio State Med. Jour., 1923, xix, 557–560.

Bachman, Harry W., B.A., M.D., was born May 15, 1892 in Bristol, Tennessee; received the degree of B.A. from Davidson College, Davidson, North Carolina, in 1913, and of M.D. from the University of Pennsylvania in 1917; was intern at the University of Pennsylvania Hospital one year, and spent six months in military service as First Lieutenant, Medical Corps, in the Research Laboratory at Hazelhurst Field, Mineola, Long Island, New York. He entered The Mayo Foundation as a fellow in surgery May 1, 1919; his services included general diagnosis, fifteen months; surgical pathology, six months; orthopedic diagnosis, three months, and surgery, fifteen months. He left The Mayo Foundation November 1, 1922, and established a practice in surgery in Bristol, Tennessee. He is a member of the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Agnes G. Hanson June 15, 1918. His address is 302 State Street, Bristol, Tennessee.

Harry W. Bachman

Baird, Burton A., B.S., M.D., was born September 14, 1891 in Prairie City, Iowa; received the degrees of B.S. and M.D. from the State University of Iowa in 1915; and was intern in the Montreal General Hospital two years, one year in surgery, and one on the rotation service. He entered The Mayo Foundation August 16, 1917 as a fellow in surgery; his services included pathologic anatomy, one month; medical hospital residence, twenty months; surgery, four months, and research and general diagnosis, six months. February 7, 1918 he became First Lieutenant, Medical Reserve Corps, and was later commissioned First Lieutenant, Medical Corps, U. S. A. He resumed his studies in The Mayo Foundation in December, 1919, and transferred his major to medicine January 1, 1921. He was a member of the Association of Resident and Ex-Resident Physicians of the Mayo Clinic and a diplomate of the National Board of Medical Examiners. He married Beatrice Carroll November 3, 1921. He left the Foundation on sick leave February 1, 1922, and died in Rochester, Minnesota, July 7, 1923.

Burton A. Baird

Baker, Albert H., B.A., M.B., was born June 25, 1883 in Walkerton, Ontario; received the degree of B.A. from McMaster University, Toronto, in 1904, and of M.B. from Toronto University, Ontario, in 1911; and practiced at Blairmore, Alberta, from October, 1911 to December, 1913. He entered the Mayo Clinic April 1, 1914; his services included general pathology, four months; experimental bacteriology, one month, and general diagnosis, five months. He left the Mayo Clinic January 31, 1915, to become a member of the staff of the tuberculosis sanatorium at Nemiskam; he is now on the staff of the Central Alberta Sanitarium, Calgary, Alberta. During the war he served as Captain in the Canadian Army Medical Corps, first in Canada and later in Asia. He is a member of the Calgary Medical Society, the Alberta Medical Association, and the Canadian Tuberculo-

Albert H. Baker

sis Association. He married Georgie Stirrett December 31, 1919. His address is 807 Twentieth Avenue West, Calgary, Alberta.

Bibliography. 1. Complications met in sanitorium practice. Can. Med. Assn. Jour., 1924, xiv, 619–622.

2. Tuberculosis survey of school children in Alberta, 1924. Can. Med Assn. Jour., 1925, xv, 816–817.

Baker, Clark E., B.S., M.D., was born March 28, 1892 in Crawford County, Illinois; received the degree of B.S. from Valparaiso University, Valparaiso, Indiana, in 1912, and of M.D. from Vanderbilt University, Nashville, Tennessee, in 1917; was intern at the St. Louis City Hospital from July 1 to December 4, 1917, and practiced general medicine in St. Louis from 1917 to 1920. He entered The Mayo Foundation as a fellow in medicine November 10, 1920; his services included pathologic anatomy, two months, and medicine, eighteen months. He left The Mayo Foundation July 1, 1922, and is now practicing in Marion, Illinois. He is a member of the Williamson County Medical Society (Illinois), the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. His address is 204 Public Square, Marion, Illinois.

Clark E. Baker

Baker, Donald V., B.A., M.D., was born March 8, 1887 in Portland, Maine; received the degree of B.A. in 1908, and of M.D. in 1912, from Harvard University, Cambridge, Massachusetts; was attending physician on the Boston Floating Hospital during the summer of 1911, and clinical urologist at the Boston City Hospital from 1910 to 1912. He entered the Mayo Clinic July 1, 1912, and was resident surgeon at St. Mary's Hospital until July 1, 1913, when he left the clinic. During the war he was a Major in the Medical Corps of the Massachusetts State Guard. He was surgeon-in-chief on the first relief train, in the Halifax, Nova Scotia disaster of 1917. Since 1913 he has been practicing in Boston, where he is assistant to Dr. H. W. Baker; assistant to the surgeon,

Donald V. Baker

Boston Dispensary; district physician, City of Boston, and surgeon-in-chief, Baker Clinic. He also serves as surgeon to several industrial plants in Boston. He is a member of the Massachusetts Medical Society, the Society of Examining Physicians and Surgeons, Society of Industrial Physicians and Surgeons, American Medical Association, and Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Rebecca E. Carson June 20, 1912. His address is 686 Centre Street, Newton 58, Massachusetts.

Bibliography.—1. Ileal stasis. Boston Med. and Surg. Jour., 1914, clxx, 235–237. (With H. W. Baker.)
2. Flat foot and leg muscle strain, related to industry in cause. Boston Med. and Surg. Jour., 1919, clxxx, 554–556.

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Bibliography.—1. A soluble bobbin for intestinal anastomosis. Boston Med. and Surg. Jour., 1907, clvii, 214–217. (With J. H. Cunningham.)
2. Results of Mayo's modification of Gilliam's operation for shortening the round ligaments. Boston Med. and Surg. Jour., 1909, clxi, 322–323.
3. An improved method of measuring the capacity of the renal pelvis. Surg., Gynec., and Obst., 1910, x, 526.
4. Jackson membrane. Boston Med. and Surg. Jour., 1913, clxviii, 766–768.
5. A further report on the Mayo-Gilliam operation for retroversion of the uterus. Boston Med. and Surg. Jour., 1914, clxx, 89.
6. Ileal stasis. Boston Med. and Surg. Jour., 1914, clxx, 235–237. (With D. V. Baker.)

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Bibliography.—1. Some quantitative relationships of thyroxin calculated from its calorigenic action. Proc. Jour. Pharmacol. and Exper. Therap., 1925, xxv, 139. (With W. M. Boothby.)

2. Spectrophotometric analysis of commercial insulin. Am. Jour. Physiol., 1925, lxxiv, 309–313. (With S. F. Adams.)

3. The site of the formation of bilirubin. Am. Jour. Physiol., 1925, lxxiv, 497–510. (With F. C. Mann, C. Sheard, and J. L. Bollman.)

4. The formation of bile pigment from hemoglobin. Am. Jour. Physiol., 1926, lxxvi, 306–315. (With F. C. Mann, C. Sheard, and J. L. Bollman.)

5. Spectrophotometric determinations of bilirubin. Am. Jour. Physiol., 1926, lxxvi, 577–585. (With C. Sheard, F. C. Mann, and J. L. Bollman.)

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Bibliography.—1. A method of anastomosis between sigmoid and rectum. Ann. Surg., 1910, li, 239–241.
2. Meckel's diverticulum: A report of fifteen cases. Journal-Lancet, 1911, xxxi, 110–112.
3. Tuberculosis of the kidneys. Journal-Lancet, 1911, xxxi, 513–515.
4. An operating room mirror. A device to facilitate the view of operations in the operating theater. Ann. Surg., 1912, lvi, 454.
5. Polycystic disease of the kidney. Journal-Lancet, 1912, xxxii, 169–173.
6. A combination abdominal retractor. Ann. Surg., 1912, lv, 419.
7. The occurrence of right inguinal hernia following appendectomy. Railway Surg. Jour., 1912–1913, xix, 117–119.
8. Drainage of wounds. Railway Surg. Jour., 1913, xix, 370–373.
9. Anterior gastro-enterostomy: report of a case of diverticula of the jejunum. Ann. Surg., 1913, lvii, 902–904.
10. Treatment by cautery of gastric ulcer. Surg., Gynec., and Obst., 1914, xix, 528–530.
11. The advantages of the double resection in certain types of goiter. Ann. Surg., 1914, lix, 671–674.
12. The thyroid and a summary of our present knowledge of goiter. Thesis. Collected Papers Mayo Clinic, 1914, vi, 363–391.
13. The care of surgical patients. Med. Rec., 1914, lxxxv, 378–382.
14. The use of novocain as a local anesthetic. St. Paul Med. Jour., 1914, xvi, 83–90.

15. The intercarotid paraganglion and its tumors. Surg., Gynec., and Obst., 1914, xviii, 203–213.. (With F. Wildner.)
16. The treatment by heat of advanced cancer of the cervix (Percy's method). Journal-Lancet, 1915, xxxv, 847–850.
17. Gastrojejunal ulcers: their roentgenologic and surgical aspects. Jour. Am. Med. Assn., 1915, lxv, 227–232. (With R. D. Carman.)
18. Tonsillectomy in children from the standpoint of the general surgeon. Ann. Surg., 1915, lxi, 257–260.
19. Indications for splenectomy in certain chronic blood disorders. Jour. Am. Med. Assn., 1916, lxviii, 790–793.
20. Cancer of the uterus; its surgical treatment. Texas State Jour. Med., 1916, xii, 140–144.
21. Desmoid tumors; report of two cases in which the tumor occurred in the operative scars. Railway Surg. Jour., 1916, xxii, 434–436.
22. Varicose veins. Journal-Lancet, 1916, xxxvi, 439–445.
23. The spleen in its relationship to pernicious anemia, splenic anemia, and hemolytic jaundice. Canadian Jour. Med. and Surg., 1916, xl, 47–57.
24. The technic of splenectomy. Surg., Gynec., and Obst., 1916, xxiii, 1–6.
25. The relative merits of the operations for cancer of the uterus. Surg., Gynec., nad Obst., 1916, xxii, 74–76.
26. Foreign bodies swallowed by an insane woman. Jour. Am. Med. Assn., 1916, lxvi, 421.
27. Non-strangulated diaphragmatic hernia due to indirect injury. Ann. Surg., 1916, lxiii, 78–82.
28. Splenectomy for repeated gastro-intestinal hemorrhage. Ann. Surg., 1917, lxv, 89–94.
29. Results of surgical treatment of gastric ulcer. Surg., Gynec., and Obst., 1917, xxiv, 731–736.
30. Restoration of gastro-intestinal continuity by means of antecolic gastrojejunostomy following partial gastrectomy for cancer of the pyloric end of the stomach. Surg., Gynec., and Obst., 1917, xxv, 473–477.
31. The surgical significance of gastric hemorrhage. Jour. Am. Med. Assn., 1917, lxix, 465–466.
32. Gastroduodenostomy: its indications and technic. Ann. Surg., 1918, lxvii, 80–82.
33. Surgery of the spleen. Collective review. Surg., Gynec., and Obst., 1918, xxvi, Internat. Abst. Surg., 1–15.
34. The utility of end-to-end anastomosis between small and large intestines. Surg., Gynec., and Obst., 1918, xxvii, 249–252.
35. Primary retrograde intussusception of the sigmoid associated with tumor. Ann. Surg., 1918, lxviii, 588–590.
36. Cancer of the thyroid gland. Med. Record, 1918, xciv, 846–850.
37. Cautery excision of gastric ulcer. Ann. Surg., 1918, lxvii, 725–731.
38. Surgical treatment in the bleeding type of gastric and duodenal ulcer. Jour. Am. Med. Assn., 1919, lxxiii, 571–575.
39. Life expectancy of patients following operations for gastric and duodenal ulcer. Ann. Surg., 1919, lxx, 522–525.
40. Surgery of the spleen. Oxford Surg., New York, Oxford Univ. Press, 1919, iii, 205–225.
41. Polyposis of the stomach. Surg., Gynec., and Obst., 1919, xxviii, 465–467.
42. The utility of the rubber tube in intestinal surgery. Surg., Gynec., and Obst., 1920, xxxi, 184–192.
43. Surgical management of gastric ulcers. Ann. Surg., 1921, lxxiv, 449–457.
44. The use of the actual cautery in treating benign lesions of the stomach and duodenum. Surg. Clin. N. Amer., 1921, i, 1233–1240.
45. The technic of hepaticoduodenostomy with some notes on reconstructive surgery of the biliary ducts. Ann. Surg., 1921, lxxiii, 343–347.

46. Postoperative biliary fistulas. Arch. Surg., 1921, iii, 582–594.
47. The management of gastric and duodenal ulcer (Editorial). Surg., Gynec., and Obst., 1922, xxxiv, 127–128.
48. Factors influencing life expectancy of patients operated on for gastric ulcer. Ann. Surg., 1922, lxxvi, 405–408.
49. The control of cancer. Surg., Gynec., and Obst., 1922, xxxv, 234–235.
50. Hematemesis. Tr. Coll. Phys., 1922, xliv, 236–254.
51. Further observations on the use of the cautery in peptic ulcer. Ann. Surg., 1923. lxxviii, 205–208.
52. Recent advances in surgery. Internat. Clin., 1924, ii, 179–190. (With M. R. Flynn.)
53. Various types of gastric resection. Surg. Clin. N. Amer., 1924, iv, 331–343.
54. Factors of safety in gastric surgery. Minn. Med., 1924, vii, 337–342.
55. Partial gastrectomy for gastrojejunal ulcer. Ann. Surg., 1924, lxxix, 386–394.
56. The case against gastro-enterostomy. Jour. Am. Med. Assn., 1924, lxxxiii, 603–606.
57. Gastric surgery. Tr. Assn. Res. and Ex-Res. Phys., Mayo Clinic, 1924, v, 63–64.
58. Value of coöperation between internist and surgeon in the management of complicated gastric conditions, with some remarks on partial gastrectomy. Jour. Am. Med. Assn., 1925, lxxxiv, 876–879.
59. The relative merits of the various treatments of peptic ulcer. Minn. Med., 1925, viii, 218–224.
60. The surgical management of the complications incident to lesions of the stomach and duodenum. Surg. Clin. N. Amer., 1925, v, 673–684.
61. The sequelæ of gastro-enterostomy. The indications for disconnecting the anastomosis, and the technic of the operation. Ann. Surg., 1925, lxxxii, 421–428.
62. Fundamental principles in surgery of the stomach and duodenum: report of 400 cases. Surg., Gynec., and Obst., 1926, xlii, 167–171.
63. Recent progress in surgery. Internat. Clin., 1926, 36 s., i, 289–304. (With J. Spence Reid.)
64. Carcinoma of the stomach. Tr. West. Surg. Assn., 1925.

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Bibliography.—1. Clinical observations on insulin. Jour. Metab. Res., 1922, ii, 701–728. (With R. M. Wilder, W. M. Boothby, H. D. Kitchen, and S. F. Adams.)
2. The use of insulin in the treatment of diabetes. Med. Clin. N. Amer., 1923, vii, 25–51.

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Bibliography.—1. Experimental infectious streptococcus endocarditis and its arsenical therapy (sodium cacodylate). Arch. Int. Med., 1923, xxxii, 727–745.
2. Experimental studies on the etiology of chronic ulcerative colitis. Preliminary report. Jour. Am. Med. Assn., 1924, lxxxiii, 332–336.
3. Uric acid content of human amniotic fluid. Am. Jour. Obst. and Gynec., 1924, vii, 406–409. (With J. L. Williams.)
4. The etiology of chronic ulcerative colitis. Experimental studies with suggestions for a more rational form of treatment. Arch. Int. Med., 1925, xxxvi, 818–829. (With A. H. Logan.)
5. The treatment of chronic ulcerative colitis as based on the demonstration of a definite causative microörganism. Jour. Iowa State Med. Soc., 1926, xvi, 218–221.

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Bibliography.—1. The diagnostic value of lowered bone-conduction in syphilis. Am. Jour. Syph., 1919, iii, 240–247. (With W. H. Goeckerman and J. H. Stokes.)
2. Operation for acute and subacute mastoiditis; results in a series of sixty-five cases. Jour.-Lancet, 1919, xxxix, 573–578. (With H. I. Lillie.)

3. Treatment of chronic dacryocystitis. Am. Jour. Ophthal., 1919, ii, 843–849. (With W. L. Benedict.)
4. Mastoiditis, acute and subacute; results in a series of operated cases. Minn. Med., 1920, iii, 23–25. (With H. I. Lillie.)
5. Observations on sphenopalatine ganglion headaches. Jour. Mich. State Med. Soc., 1920, xix, 371–375.
6. The value of conversative intranasal drainage for chronic empyema of the antrum. Minn. Med., 1921, iv, 445.
7. Observations on the sphenopalatine ganglion syndrome of the sympathetic type: Report of three cases. Med. Clin. N. Amer., 1921, v, 289–293.
8. The study of vestibular nerve function in myxedema. Thesis. Am. Jour. Med. Sc., 1922, clxiv, 401–415.
9. Sinusitis in children. Tr. Res. and Ex-Res. Phys. Mayo Clinic, 1924, v, 127–132.
10. Lingual abscess. Boston Med. and Surg. Jour., 1925, cxcii, 353–355.
11. Sinusitis a reason for apparent failure following removal of tonsils and adenoids in children. Jour. Michigan Med. Soc., 1925, xxiv, 43–47.
12. Recognition of sinus disease in children. Tr. Am. Laryngol. Assn., 1924, xlvi, 29–37; also Ann. Otol., Rhinol., and Laryngol., 1925, xxxiv, 378–381.
13. Actinomycosis of the tongue. Laryngoscope, 1925, xxxv, 314–316.
14. Malignancy of the external nose with report of a case of *x*-ray origin. Ann. Otol., Rhinol., and Laryngol., 1925, xxxiv, 1150–1158.
15. Discussion of acute otitis media with mastoiditis. Wisconsin Med. Jour., 1926, xxv, 81–83.

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Arlie R. Barnes

Bibliography.—1. The pelvic fascia. Anat. Rec., 1919, xvi, 138–141.
2. Twilight sleep. A report of thirty cases and a summary of 5,575 cases reported in the literature. Jour. Indiana Med. Assn., 1920, xiii, 259–263.
3. Report of two consecutive cases of hemorrhage of the newborn in one family. Indianapolis Med. Jour., 1920, xxiii, 169–171.
4. Clinical and surgical experience in diseases of the chest with special reference to pneumothorax. Med. Clin. N. Amer., 1921, v, 295–305. (With W. S. Lemon.)
5. The pelvic fascia. Anat. Rec., 1921, xxii, 37–55.
6. Bacteria recovered postmortem with special reference to selective localization and focal infection. Jour. Indiana Med. Assn., 1922, xv, 1–7. (With A. S. Giordano.)
7. Studies in postmortem bacteriology: Value and importance of cultures made postmortem. Jour. Lab. and Clin. Med., 1922, vii, 538, 546. (With A. S. Giordano.)
8. A clinical study of fifty cases of pneumothorax. Jour. Iowa State Med. Soc., 1922, xii, 81–89.
9. Syphilitic aortitis. Minn. Med., 1924, vii, 227–233. (With F. A. Willius.)
10. Paroxysmal tachycardia with special reference to prognosis. Boston Med. and Surg. Jour., 1924, cxci, 666–670. (With F. A. Willius.)
11. Chronic adherent pericarditis. Jour. Indiana State Med. Assn., 1924, xvii, 101–103. (With F. A. Willius.)
12. Myocardial infarction: an electrocardiographic study. A report of nine cases from the Mayo Clinic, and a review of twenty-four published cases. Jour. Lab. and Clin. Med. ,1925, x, 427–445. (With F. A. Willius.)
13. Cerebral manifestations of paroxysmal tachycardia. Am. Jour. Med. Sc., 1926, clxxi, 489–495.
14. The risk of dental surgery, especially in cases of cardiovascular disease. Jour. Am. Dent. Assn., 1926, xiii, 1433–1440.
15. The risks of local and general anesthetics in the treatment of untoward effects. Illinois Med. Jour., 1926. (In press.)

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Bibliography.—1. Acute renal insufficiency following major surgical operations. Med. Clin. N. Amer., 1923, vii, 135–140. (With N. M. Keith.)
2. Incidence of occurrence of neurosyphilis following early treatment by arsphenamin or mercury. (Unpublished.) (With J. H. Stokes.)
3. The pathology of exophthalmic, toxic, and non-toxic goiter. (Unpublished.)
4. Calcium treatment for edema. Arch. Int. Med., 1924, xxxiii, 643–657. (With R. Rockwood.)
5. A study of the histogenesis and pathology of goiter, with special reference to adenomatous goiter with hyperthyroidism. (Abstract.) Tr. Assn. Res. and Ex-Res. Phys. Mayo Clinic, 1924, v, 43–44.
6. Treatment of nephritis and edema with calcium. Jour. Am. Med. Assn., 1924, lxxxiii, 666–670; also Dietary Administration and Therapy, 1924, ii, 554–562. (With N. M. Keith and Mary Whelan.)
7. The diuretic action of ammonium chlorid and novasurol in cases of nephritis with edema. Jour. Am. Med. Assn., 1925, lxxxv, 799–806. (With N. M. Keith and Mary Whelan.)
8. Novasurol in the treatment of ascites in hepatic disease. Jour. Am. Med. Assn., 1925, lxxxv, 1187–1193. (With L. G. Rowntree and N. M. Keith.)

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Watson Beach

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Bibliography.—1. The peristaltic gurgle in obscure malignancy. Med. Times, 1923, li, 172. (With L. N. Boston.)

2. Osteosis cutis. Arch. Dermat. and Syph., 1924, x, 163–172.

3. Dermatitis in association with disease or injury of the peripheral nerves. Arch. Dermat. and Syph., 1925, xii, 235–241.

4. Further observations on the treatment of neurosyphilis with tryparsamid. Med. Jour. and Rec., 1926, cxxiii, 305–308. (With P. A. O'Leary.)

5. The sugar and chlorid content of the cerebrospinal fluid with special reference to neurosyphilis. Jour. Lab. and Clin. Med., 1926. (In press.)

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Bibliography.—1. Bier's congestive therapy. Presented before the Southern Minnesota Medical Association, Rochester, Minn., Aug. 1, 1907. St. Paul Medical Journal, 1907, iv, 762–767.
2. Notes on the operating room technique at St. Mary's Hospital, Rochester, Minn. The National Hospital Record, March, 1908.
3. Operating room technic. Old Dominion Journal of Medicine and Surgery, 1909, ix, 171–179.
4. Diaphragmatic hernia, with report of three cases. Surg., Gynec., and Obst., 1909, ix, 154–156.
5. A plea for the early diagnosis and early surgical treatment of cancer. Presented before the Minnesota Academy of Medicine, Nov. 3, 1909, Northwestern Lancet, 1909, xxix, 534–536.
6. A report of the surgical clinic at St. Mary's Hospital of Rochester, Minnesota, for the month of July, 1910. International Clinics, 1910, s. 20, iv, 11–120.
7. Simple method of preparing the skin for surgical operations. Interstate Medical Journal, 1911, xviii, 790.
8. Pulmonary and circulatory complications following surgical operations. Presented before the Minnesota State Medical Association, Minneapolis, Oct., 5, 1910. Journal-Lancet, 1911, xxxi, 225–230.
9. Carcinomata of the lip, mouth, and pharynx. Presented before the Minnesota State Medical Association, St. Paul, Oct. 5, 1911. Journal-Lancet, 1912, xxxii, 29–31.
10. Repair of fractures with steel splints. Surg., Gynec., and Obst., 1912, xiv, 71–76.
11. The repair of hernia from the peritoneal side of the abdominal wall. Ann. Surg., 1912, lx, 570.
12. An unusual bone tumor of the foot. Surg., Gynec., and Obst., 1912, xv, 119–120.
13. The open treatment of fractures. Presented before the Southern Minnesota Medical Association, Aug., 6, 1912. Journal-Lancet, 1913, xxxiii, 191–193.

14. The surgical treatment of cancer of the lower lip, with a report of 199 cases. Journal Oklahoma Medical Association, 1913–14, vi, 185–193.
15. Complications following surgical operations: a report of the complications and deaths in a series of 5,835 surgical operations performed in the Mayo Clinic, St. Mary's Hospital, in the year 1912. Annals of Surgery, 1913, lvii, 718–729.
16. Observations on empyema. Presented before the Southern Minnesota Medical Association, Owatonna, Minn., Aug. 5, 1913. St. Paul Medical Journal, 1913, xv, 533–537.
17. A plea for early operation for cancer of the lower lip. Presented before the Oregon State Medical Association, Medford, Oregon, Sept., 18, 1913, and the Colorado Medical Society, Glenwood Springs, Colo., Oct. 7, 1913. Northwest Medicine, 1914, vi, 1–5; Colorado Medicine, 1914, xi, 7–16.
18. Decortication of the lung for old empyema. Presented before the Utah State Medical Association, Salt Lake City, Sept., 23, 1913. Northwest Medicine, 1914, n. s., vi, 68–72.
19. Complications following surgical operations. A report of the complications in a series of 6,825 surgical operations performed in the Mayo Clinic in the year 1913. Surg., Gynec., and Obst., 1914, xviii, 551–555.
20. Visceral pleurectomy for chronic empyema. Transactions of the American Surgical Association, 1914, xxxii, 671–687. Annals of Surgery, 1914, lix, 884–890. (With C. H. Mayo.)
21. The surgical treatment of facial paralysis. Presented before the Section on Surgery, Michigan State Medical Society, Detroit, Sept. 10, 1914. Journal Michigan Medical Society, 1914, xiii, 681–685.
22. Recovery from paralysis following decompression of the spinal cord. Presented before the Western Surgical Association, Denver, Dec. 18, 1914. Journal-Lancet, 1915, xxxv, 481–483.
23. The surgical treatment of chronic ulcers of the stomach. Journal Kansas Medical Society, 1915, xv, 272–276.
24. Correction of depressed fractures of the nose by transplant of cartilage. Surg., Gynec., and Obst., 1915, xxi, 694–696.
25. The differential diagnosis of lesions of the stomach and duodenum. Presented before the Mississippi Valley Medical Association, Lexington, Ky., Oct., 19, 1915. Lancet-Clinic, 1916, cxv, 242–245.
26. Observations on the diagnosis and treatment of trifacial neuralgia. Presented before the American Surgical Association, Washington, D. C., May 9, 1916. Annals of Surgery, 1916, lxiv, 242–247.
27. Early operation for severe injuries of the head: report of two cases of meningeal hemorrhage. Interstate Medical Journal, 1916, xxiii, 265–267.
28. What the intern should contribute to the team-work. Mod. Hosp., 1917, viii, 43–45.
29. Tumors of the spinal cord. Presented before the Section on Surgery, Minnesota State Medical Association, Minneapolis, Oct., 12, 1916.
30. Tumors of the spinal cord, with a report of eighteen cases. Journal-Lancet, 1917, xxxvii, 35–40. Discussion 40–42.
31. Acute postoperative obstruction and paresis. Journal-Lancet, 1917, xxxvii, 535–538.
32. Spina bifida, its operative treatment. St. Paul Med. Jour., 1917, xix, 357–363. (With A. W. Adson.)

Beeler, Carol, B.S., was born in Hamilton, Ohio, February 21, 1894; attended the University of Cincinnati from 1911 to 1913; received the degree of B.S. from the University of Chicago in 1918; did laboratory work at Sprague Institute three years, and at the Children's Hospital, Chicago, one year, and was head technician at Camp Sherman one year. She entered The Mayo Foundation April 1, 1920 as assistant in one of the sections on medicine and a fellow in chemistry; her services consisted of medical chemistry, three years and six months. She left The Mayo Foundation September 17, 1923, and studied medicine at the University of Cincinnati one year. She married Dr. Gèza de Takáts October 22, 1924. Her address is 2754 Hampden Court, Chicago, Illinois.

Carol Beeler

Bibliography.—1. The bacteriology of the urine in healthy children and those suffering from extra-urinary infections. Am. Jour. Dis. Child., 1916, xii, 345–354. Also: Tr. Am. Pediat. Soc., 1915, xxviii, 283–293. (With H. F. Helmholz.)

2. Experimental pyelitis in the rabbit. Jour. Am. Med. Assn., 1917, lxix, 898–901. (With H. F. Helmholz.)

3. Focal lesions produced in the rabbit by colon bacilli isolated from pyelocystitis cases. Am. Jour. Dis. Child., 1917, xiv, 5–24. Tr. Am. Pediat. Soc., 1917, xxix, 86–106. (With H. F. Helmholz.)

4. Experimental pyelitis in the rabbit. Jour. Urol., 1918, ii, 395–419. (With H. F. Helmholz.)

5. Ascending infection of the urinary tract. Tr. Am. Pediat. Soc., 1918, xxx, 196–199. (With H. F. Helmholz.)

6. Plasma chlorides and edema in diabetes. Am. Jour. Physiol., 1921, lv, 287–288. (With R. M. Wilder.)

7. Observations on glycemia, glycuresis, and water excretion in obesity. Arch. Int. Med., 1921, xxviii, 804–812. (With R. Fitz.)

8. An improved alimentary glucose tolerance test. Jour. Metabolic Res., 1922, i, 549–560. (With A. W. Bryan, E. P. Cathcart, and R. Fitz.)

9. Studies of the metabolism of diabetes. Jour. Biol. Chem., 1922, li, 311–357. (With R. M. Wilder and W. M. Boothby.)

10. A study of complement in the serum of diabetic and uremic patients. Jour. Infect. Dis., 1924, xxxiv, 625–630. (With R. Rockwood.)

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Claud W. Behn

Bibliography.—1. Serologic and clinical results in various types of syphilis; with sulpharsphenamin administered intramuscularly. Jour. Am. Med. Assn., 1924, lxxxiii, 242–246. (With J. H. Stokes.)

Bell, Leo P., B.A., M.D., M.S. in Surgery, F.A.C.S., was born January 30, 1891 in Monroe City, Missouri; received the degree of B.A. in 1912 from the University of Missouri, of M.D. from Harvard University, Cambridge, Massachusetts, in 1915, and of M.S. in Surgery from the University of Minnesota in 1921, and was surgical intern at Lakeside Hospital, Cleveland, in the service of Dr. George W. Crile, from 1915 to 1916. He entered The Mayo Foundation July 1, 1916 as a fellow in surgery; his services included surgery, two years and one month; postoperative treatment, three months; general diagnosis, two months; special anesthesia, three months; roentgenology, three months, and experimental surgery and pathology, one year (part time). From June, 1917 to February, 1919 he was in military service, and served successively as Captain in the Medical Reserve Corps, First

Leo P. Bell

Lieutenant in the Medical Corps, U. S. A., and as instructor at Forts Riley and Oglethorpe. He left The Mayo Foundation January 1, 1922, and practiced surgery in Sacramento, California, until July, 1922, when he became a member of the surgical staff of the Woodland Clinic, California. He is a member of the American College of Surgeons, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Jeanette Merritt October 11, 1923. His address is Woodland Clinic, Woodland, California.

Bibliography. —1. A study of the pathologic conditions encounted during and following the relief of experimental obstructive jaundice compared with similar pathologic conditions in man. Papers from The Mayo Foundation and the Medical School of the University of Minnesota, Philadelphia, Saunders, 1921–1922, ii, 24–32.

2. Preoperative preparation and surgical treatment of chronic splenic anemia. (Read before Nevada State Medical Association, Sept., 1925.)

3. Preoperative preparation and surgical treatment of carcinoma of the pancreas with common duct obstruction. Calif. and West. Med., 1925, xxiii, 1288–1293.

Benedict, William L., M.D., F.A.C.S., was born February 13, 1885 in Springport, Indiana; attended the University of Michigan from 1907 to 1912, receiving the degree of M.D. in 1912, was intern in the Department of Ophthalmology, University of Michigan, from July, 1912 to September, 1913; practiced in Detroit from September, 1913 to June, 1914, and in Fresno, California, from July, 1914 to May, 1917. He came to the Mayo Clinic May 1, 1917 as head of the Section on Ophthalmology. He is professor of ophthalmology, The Mayo Foundation, Graduate School, University of Minnesota. He is a member of the Olmsted County Medical Society, the Southern Minnesota Medical Association, the Minnesota State Medical Association, the Minneapolis Academy of Ophthalmology and Otolaryngology, the American Ophthalmological Society, the American Academy of Ophthalmology and Otolaryngology, the Optical Society of America, the American College of Surgeons, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Sigma Xi. He married Edith Betz June 2, 1914. His address is Rochester, Minnesota.

William L. Benedict

Bibliography.—1. Report of a case of retinitis circinata associated with tuberculosis. Med. Clin. N. Amer., 1919, iii, 551–555.

2. Intrascapular extraction of cataracts. Minnesota Med., 1919, ii, 461–467.

3. Treatment of chronic dacryocystitis. Am. Jour. Ophth., 1919, ii, 843–849. (With R. A. Barlow.)
4. Radium in the treatment of diseases of the eye and adnexa. Am. Jour. Ophthal., 1920, iii, 244–250. (With G. B. New.)
5. Early diagnosis of pituitary tumor with ocular phenomena. Am. Jour. Ophth., 1920, iii, 571–584; also Tr. Sec. on Ophth. of Am. Med. Assn., 1920, 148–174.
6. The value of dental examination in the treatment of ocular disorders. Am. Jour. Ophth., 1920, iii, 860–865.
7. Preparation of ophthalmologists for group practice. Am. Jour. Ophth., 1921, iv, 38–42.
8. The treatment of trachoma. Minn. Med., 1921, iv, 437–440.
9. Retinitis of cardiovascular and of renal diseases. Am. Jour. Ophth., 1921, iv, 495–499; also Penn. Med. Jour., 1921, xxv, 107.
10. Retinitis of acute nephritis: Report of six cases. Med. Clin. N. Amer., 1921, v, 275–288.
11. The orbit. Ophthal. Literature, 1921, xvii, 396–405.
12. The character of iritis caused by focal infection. Arch. Ophthal., 1921, l, 560–568.
13. Retinitis of hypertension plus nephritis. Jour. Am. Med. Assn., 1922, lxxvii, 1688–1691.
14. The use of antispecific remedies in the treatment of the diseases of the uveal tract. Tr. Pacific Coast Oto-ophthal. Soc., 1922, 44–51. (With P. A. O'Leary.)
15. The significance of a routine examination of the eye-grounds. Ann. Clin. Med., 1922, i, 200–203.
16. Detachment of the retina in a case of pregnancy with nephritis. Reattachment and restoration of vision. Am. Jour. Ophth., 1923, vi, 268–270. (With R. D. Mussey.)
17. Tumors and cysts arising near the apex of the orbit. Am. Jour. Ophth., 1923, vi, 183–201.
18. Retinitis associated with disease of the cardiovascular system. New York Med. Jour., 1923, cxvii, 741–745.
19. A standardized operation for the extraction of cataract. (Editorial.) Surg., Gynec., and Obst., 1923, xxxvi, 576–577.
20. Inflammatory pseudotumor of the orbit. Arch. Ophth., 1923, lii, 582–593. (With Mary S. Knight.)
21. Serous tenonitis. Am. Jour. Ophth., 1923, vi, 656–660. (With Mary S. Knight.)
22. Substitute operations for enucleation of the eye. (Editorial.) Surg., Gynec., and Obst., 1924, xxxviii, 697–698.
23. Sympathetic ophthalmia with recovery of vision in the symphathizing eye. Surg. Clin. N. Amer., 1924, iv, 495–497.
24. Treatment of uveal diseases. Jour. Indiana State Med. Assn., 1924, xvii, 408–414.
25. Bony tumors of the orbit. Ohio State Med. Jour., 1925, xxi, 557–561.
26. Diseases of the orbit. Journal-Lancet, 1925, xlv, 564–568.
27. Clifford Allbutt and medical ophthalmoscopy. Minn. Med., 1926, ix, 222–227.

Benjamin, Walter G., B.S., M.D., was born May 14, 1893 in Hutchinson, Minnesota; received the degree of B.S. in 1918, of M.B. in 1920, and of M.D. in 1921 from the University of Minnesota. He was intern at the University Hospital, Minneapolis, from October, 1919 to May, 1920, and at the Minneapolis General Hospital from July, 1920 to July, 1921. He entered The Mayo Foundation as a fellow in medicine July 1, 1921; his services have included gynecology, six months; radium therapy, three months; medical hospital service, three months; orthopedic diagnosis, six months; general diagnosis, six months, and operative surgery, one year. He left The Mayo Foundation July 1, 1924. He is a member of the Minnesota State Medical Association and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Mabel Bedell July 1, 1922. His address is National Bank Building, Pipestone, Minnesota.

Walter G. Benjamin

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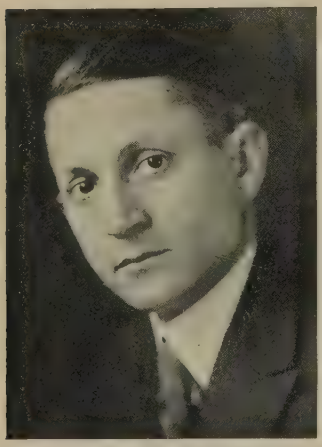
Ralph D. Bergen

Berkman, David M., B.S., M.D., M.S. in Medicine, was born May 26, 1886 in Rochester, Minnesota; received the degree of B.S. from the University of Minnesota in 1909, of M.D. from Rush Medical College, University of Chicago, in 1912, and of M.S. in Medicine from the University of Minnesota in 1920; was intern in the Presbyterian Hospital, Chicago, from 1912 to 1913, and was engaged in post-mortem service at the Cook County Hospital for five months. He came to the Mayo Clinic November 1, 1913 as a member of the clinical staff. In 1921 he was appointed head of one of the sections in the Division of Medicine. He is assistant professor in medicine, The Mayo Foundation, Graduate School, University of Minnesota. He is a member of the Olmsted County Medical Society, the Southern Minnesota Medical Association, the Minnesota State Medical Association, the American Medical Association, the American Gastro-Enterological Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Alpha Kappa Kappa, and Sigma Xi. He married Frances Scott June 8, 1915. His address is Rochester, Minnesota.



David M. Berkman

Bibliography.—1. Accidental roentgen diagnosis of cholelithiasis. Interstate Med. Jour., 1915, xvii, 615.

2. Medical treatment of diabetics preparatory to surgical treatment Journal-Lancet, 1916, xxxvi, 309–312.

3. Preoperative considerations of exophthalmic goiter. St. Paul Med. Jour., 1916, xviii, 300–303.

4. Diabetes and the practitioner. Jour. Iowa State Med. Soc., 1917, vii, 214–215.

5. Dietary instructions. Med. Clin. N. Amer., 1919, iii, 661–667.

6. A preoperative and postoperative study of diabetic patients with surgical complications. Minn. Med., 1921, iv, 28–37.

7. Preoperative management in cases of gastric retention. Med. Clin. N. Amer., 1921, v, 411–418.

8. The diabetic patient as a surgical risk. Collected Papers of the Mayo Clinic, 1921, xiii, 1177–1181.

9. Gastric retention: its treatment and the surgical mortality. Tr. Am. Gastro-enterolog. Assn., 1923, xxvi, 89–95.

10. Actinomycosis of sigmoid flexure. Surg. Clin. N. Amer., 1924, iv, 357–359. (With E. B. Frazer.)

11. Primary carcinoma of the duodenum: report of fifteen verified cases. Ann. Surg., 1925, lxxxii, 153–163; 383–388. (With G. B. Eusterman and T. B. Swan.)

12. Practical considerations in the diagnosis of chronic abdominal disease. Minn. Med., 1925, viii, 712–714.

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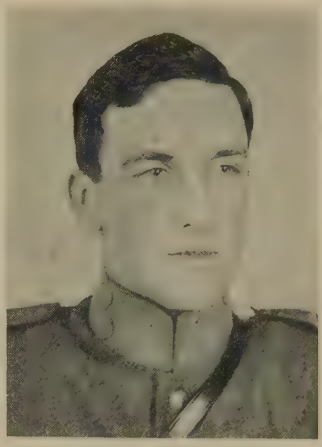

Max E. Bircher

Bibliography.—1. Die Beziehung zwischen der Viscosität des Blutes und dessen Gehalt an Blutkörperchen und gelöstem Eiweiss. Arch. f. d. ges. Physiol., 1920, clxxxii, 1–49.
2. Medizinische Skizzen aus Amerika. Schweiz. med. Wchnschr., 1921, li, 160–163.
3. Clinical diagnosis by the aid of viscosimetry of blood and the serum with special reference to the viscosimeter of W. L. Hess. Jour. Lab. and Clin. Med., 1921, vii, 134–137.
4. The globulin content of the blood serum in syphilis. Arch. Dermat. and Syph., 1922, v, 215–233. (With A. R. McFarland.)
5. II. On the value of the refracto-viscosimetric properties of blood serum in cancer. Jour. Lab. and Clin. Med., 1922, vii, 660–664.
6. III. The value of the refracto-viscosimetric properties of blood serum in cases of tuberculosis. Jour. Lab. and Clin. Med., 1922, vii, 733–735.
7. Der exophthalmische Kropf und das hyperthyreotoxische Adenom als zwei selbständige Krankheiten. Schweiz. med. Wchnschr., 1922, lii, 347–349.
8. Das Schwitzen im Lichte des Energieverbrauches. Schweiz. med. Wchnschr., 1922, lii, 1265–1269.
9. Die Jodtherapie unter wissenschaftlicher Kontrolle. Schweiz. med. Wchnschr., 1922, lii, 862.
10. Die Technik des Basalstoffwechselbestimmung mit Demonstration ihrer Anwendbarkeit an einem Fall von operativem Hypothyreoidismus. Schweiz. med. Wchnschr., 1923, liii, 143–147.
11. Zur psychologischen Aetiologie eines Duodenal-geschwüres. Schweiz. med. Wchnschr., 1924, liv, 173–178.
12. Die geschichtliche Entwickelung der Gruppen Medizin in Amerika und ihre Bedeutung für die Zukunft. Verhandl. d. schweiz. naturf. Gesellsch. (In press.)

Bissell, Wayne W., S.B., M.D., was born June 18, 1886 in Lodi, Wisconsin; received the degree of S.B. from the University of Wisconsin in 1909, and of M.D. from Rush Medical College, University of Chicago, in 1911; was intern from June, 1911 to June, 1913, and resident pathologist from 1913 to 1916 in Cook County Hospital, Chicago. He came to the Mayo Clinic April 1, 1916 as head of the Section on Pathologic Anatomy, and was appointed assistant professor of pathology, The Mayo Foundation, Graduate School, University of Minnesota. From December, 1917 to February, 1919 he served in the Medical Corps, A.E.F., in France, and rose from the rank of First Lieutenant to that of Major. He left The Mayo Foundation June 1, 1920 on leave of absence, but did not return, resigning November 1, 1920. He moved to Holcombe, Wisconsin, and later to Milwaukee. He married Eleanor Withington in September, 1916. He is now pathologist in Cook County Hospital, Chicago, Illinois.

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Bibliography.—1. Lymphatic tuberculosis simulating Hodgkin's disease. Chicago Med. Rec., 1914, xxxvi, 539–545.

2. Secondary and extensive involvement of the ureter with hypernephroma. Tr. Chicago Path. Soc., 1913–1915, ix, 142–147.

3. Remarks accompanying a demonstration of two hearts with patent interventricular septa, extensive shortening of the colon due to ulceration (lues?), and huge calculous dilatation of the ductus pancreaticus Wirsungi. Tr. Chicago Path. Soc., 1913–1915, ix, 159–169.

4. Large congenital cystic kidneys. Tr. Chicago Path. Soc., 1913–1915, ix, 270–271.

5. Cor bovinum with an aneurysm of the ascending aorta. Tr. Chicago Path. Soc., 1913–1915, ix, 271–273.

6. Acute thrombo-ulcerative endocarditis of a bicuspid aortic valve. Tr. Chicago Path. Soc., 1913–1915, ix, 273–275.

7. Aneurysm of the arch of the aorta with bilateral complete infarction of the kidneys. Tr. Chicago Path. Soc., 1913–1915, ix, 275–278.

8. Huge gumma of the spleen. Tr. Chicago Path. Soc., 1913–1915, ix, 278–280.

9. A consideration of the relative frequency of the various forms of coma with special reference to uremia. Jour. Am. Med. Assn., 1915, lxiv, 1041–1045. (With E. R. LeCount.)

10. The relative frequency of the various causes of coma. Jour. Am. Med. Assn., 1917, lxviii, 500. (With E. R. LeCount.)

11. Pulmonary embolism a frequent cause of postoperative shock. Surg., Gynec., and Obst., 1917, xxv, 8–22. Also: Tr. Chicago Path. Soc., 1916–1917, x, 197–206.

12. An instance of primary portal thrombosis illustrating a not uncommon source of diagnostic error. Med. Clin. N. Amer., 1919, iii, 733–739.

Black, Hugh S., B.A., M.D., was born October 12, 1892 in Spartanburg, South Carolina; received the degree of B.A. from Wofford College, Spartanburg, in 1913, and of M.D. from Jefferson Medical College, Philadelphia, in 1917, and was intern in Jefferson Hospital, Philadelphia, from June, 1917 to January, 1919. He entered The Mayo Foundation January 20, 1919 as a fellow in surgery; his services included postoperative care, four and one-half months; general diagnosis, eight months, surgery, two years and two months, and orthopedic surgery, three months. He left The Mayo Foundation July 1, 1922 to practice surgery at Spartanburg. He is a member of the South Carolina State Medical Association, the Association of the Southern Railway Surgeons, the Tri-State Medical Association of the Carolinas and Virginia, the Southern Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Iris Burrus September 29, 1925. His address is 362 East Main Street, Spartanburg, South Carolina.

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Bibliography.—1. Pyelitis complicating pregnancy. South. Med. Jour., 1919, xii, 39–41.
2. Duodenal ulcer with reference to acute perforation. Jour. So. Carolina Med. Assn., 1923, xix, 646–648.
3. Patella with reference to acute fracture. South. Med. Jour., 1924, xvii, 617–619.
4. Cysts of the pancreas. South. Med. and Surg. Jour. (Charlotte, N. C.), 1924, lxxxvi, 265–268.
5. Benign tumors of the small intestine causing intussusception. Jour. So. Carolina Med. Assn., 1925, xxi, 37–40.
6. The nonsurgical treatment of carbuncles. Internat. Jour. Med. and Surg., 1925, xxxviii. 385–387. (With P. Black.)

Black, Samuel O., B.A., M.D., F.A.C.S., was born February 11, 1890 in Wellford, South Carolina; received the degree of B.A. from Wofford College, Spartanburg, South Carolina, in 1911, and of M.D. from Jefferson Medical College, Philadelphia, in 1915, and was intern in the Jefferson Medical College Hospital from June, 1915 to April, 1917. He entered The Mayo Foundation as a fellow in surgery April 10, 1917; his services included surgery, one year, and general diagnosis, two months. He left The Mayo Foundation July 1, 1918, and spent nine months as First Lieutenant, Medical Corps, at Camp Wadsworth, South Carolina, and with the A. E. F. in France. He then began the practice of general medicine with his father in Spartanburg, South Carolina. He is a member of Spartanburg County Medical Society, the South Carolina Medical Association, the Tri-State Medical Association of the Carolinas and Virginia, the Southern Medical Association of Military Surgeons, the American Medical Association, the American College of Surgeons, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Sallie Lamel April 4, 1917. His address is Spartanburg, South Carolina.

Samuel O. Black

Bibliography.—1. Ovarian cyst with report of case in which the tumor weighed eighty-five pounds. Jour. South Carolina Med. Assn., 1915, xi, 307–313; also North Carolina Med. Jour., 1915, lxxii, 292–295.

2. Uterine evacuations, elective and enforced; the Cæsarean and Porro operations: Case reports. Jour. South Carolina Med. Assn., 1917, xiii, 707–710.

3. Pulmonary teratoma; report of a case with remarks on ovigenous tumors. Ann. Surg., 1918, lxvii, 73–79. (With H. R. Black.)

4. Stab wound of the left auricle; sutured. Internat. Jour. Surg., 1920, xxxiii, 177–179.

5. Goiter: observations on approximately 2,000 Cases. Jour. South Carolina Med. Assn., 1920, xvi, 242–245.

6. Goiter: observations on approximately 1,500 cases. North Carolina Med. Jour., 1920, lxxxi, 96–99.

7. Chronic surgical infections of the abdomen. North Carolina Med. Jour., 1920, lxxxii, 90–92.

8. Radium therapy in uterine diseases. Jour. South Carolina Med. Assn., 1920, xvi, 301.

9. Hernia; traumatic and strangulated. South. Med. Jour., 1921, xiv, 625–629.

10. Radium therapy in malignant and benign disease. South. Med. and Surg. Jour., 1921, lxxxiii, 267–270.

11. Abscess of the liver. Internat. Jour. Surg., 1922, xxxv, 342–344.

12. Torsion of appendices epiploical. South, Med. Jour., 1923, xvi, 35–37.

13. Radium, *x*-ray, and surgery. Virginia Med. Month., 1924, li, 437–438. (With P. Black.)

14. Enterostomy, a life saver. Virginia Med. Month., 1925, lii, 47–49.

Blackford, John M., M.D., F.A.C.P., was born February 1, 1887 in Fairfax County, Virginia; received the degree of M.D. from the University of Virginia in 1910, and was intern in the University of Virginia Hospital six months in 1910. He entered the Mayo Clinic January 1, 1911 as assistant in pathology, in which capacity he served for eighteen months. He devoted five years and three months to general diagnosis. He left the clinic October 1, 1917 to practice internal medicine in Seattle. He is a member of the King County Medical Society (Washington), the American College of Physicians, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Elizabeth J. Mann December 28, 1911. His address is Virginia Mason Hospital Building, Seattle, Washington.

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Bibliography.—1. Hodgkin's disease and sarcoma of the cervical gland. Surg., Gynec., and Obst., 1912, xiv, 34–39.
2. Involvement of regional lymphatic glands in carcinoma of the stomach. Ann. Surg., 1912, lv, 811–843. (With W. C. MacCarty.)
3. Results of intravenous injections of extracts of goiter on blood pressure in the dog. Med. Rec., 1913, lxxxiv, 378–380. (With A. H. Sanford.)
4. A demonstration of a depressor substance in the serum of the blood of patients affected with exophthalmic goiter. Am. Jour. Med. Sc., 1913, cxlvi, 796–802. (With A. H. Sanford.)
5. A comparative study of the effects on blood pressure of the extracts and serums of exophthalmic goiter and of other substances. Jour. Am. Med. Assn., 1914, lxii, 117–122. (With A. H. Sanford.)
6. The thymus in adults with especial reference to goiter. Collected Papers, Mayo Clinic, 1916, viii, 507–512. (With W. P. Freligh.)
7. Chronic heart block. Am. Jour. Med. Sc., 1917, cliv, 585–592.
8. Operative risk in cardiac disease. Jour. Am. Med. Assn., 1917, lxix, 2011–2014. (With F. A. Willius and S. B. Haines.)
9. Auricular flutter. Arch. Int. Med., 1918, xxi, 147–165. (With F. A. Willius.)
10. Observations on thyroid intoxication. Northwest Med., 1919, xviii, 199–201.
11. Clinical review of stomach symptoms. Northwest Med., 1921, xx, 36–39.
12. Gastric symptoms, analysis of 1,000 cases. Also Tr. Assn. Res. and Ex-Res. Phys., Mayo Clinic, 1921, ii, 147–162; Jour. Am. Med. Assn., 1921, lxxvii, 1410.
13. Thyrotoxicosis. Surg., Gynec., and Obst., 1922, xxxiv, 185–188.
14. Gastric symptoms; with particular reference to gallbladder disease. Jour. Am. Med. Assn., 1924, lxxxiii, 412–416. (With M. F. Dwyer.)
15. Exophthalmic goiter. Surg. Clin. N. Amer., 1924, iv, 116–1119.
16. Gastric carcinoma,emphasizing hyperacidity with ulcer history a study of fifty-eight cases. Northwest Med., 1925, xxiv, 280–283.

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Bibliography.—1. Comparison of blood platelet count in splenic arterial and venous blood. Am. Jour. Med. Soc., 1924, clxviii, 723–728. (With J. K. Holloway.)

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Bibliography.—1. The frequency of adenomyoma of the uterus. Ann. Surg., 1919, lxix, 135–137. (With W. C. MacCarty.)

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Pio Blanco

Bibliography.—1. Report of a case of loose osteocartilaginous bodies in the knee joint. Jour. Orthop. Surg., 1921, iii, 104–108.

2. Giant-cell tumor in the knee joint. Jour. Orthop. Surg., 1921, iii, 156–157.

LIBRARY

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Walter F. Bleifuss

Bibliography.—1. Control of communicable diseases in schools. Am. Jour. Pub. Health, 1923, xiii, 680–681.
2. Garbage feeding to swine. Am. City Magazine, 1923.
3. Survey of refuse collection and disposal in towns and cities of Minnesota. Minn. Municipalities, Aug., 1924.

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BOSTON MEDICAL

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Bibliography.—1. The value of definite methods of treatment of malignant and non-malignant conditions. Med. Clin. N. Amer., 1925, viii, 1353–1370. (With H. H. Bowing.)

Bollman, Jesse L., B.A., M.S., B.S., M.D., was born February 19, 1896 in Springfield, Illinois; received the degree of B.A. in 1917 from the University of Illinois, of M.S. in 1918 from the University of Michigan, and the degree of B.S. and M.D. in 1922 and 1923 from the University of Illinois; was instructor in bacteriology at the University of Michigan Medical School in 1917–18, and assistant in physiologic chemistry at the University of Illinois from 1919 to 1922. He came to The Mayo Foundation July 1, 1923 as first assistant in experimental pathology, and is an instructor in experimental pathology in The Mayo Foundation, Graduate School, University of Minnesota. He is a member of the Society for Experimental Biology and Medicine, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Nu Sigma Nu, and Sigma Xi. He married Mildred Montgomery November 29, 1922. His address is Rochester, Minnesota.

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Bibliography.—1. The toxin of Bacillus Welchii. II. The mechanism of infection of B. Welchii. Jour. Inf. Dis., 1917, xxi, 588–599. (With P. H. DeKruif.)

2. The effect of subcutaneous injections of solutions of potassium cyanide on catalese content of blood. Jour. Biol. Chem., 1921, xlviii, 445–451. (With W. H. Welker.)

3. Studies on the physiology of the liver. VIII. Effect of total removal of the liver on the formation of urea. Am. Jour. Physiol., 1924, lxix, 371–392. (With F. C. Mann and T. B. Magath.)

4. Studies on the physiology of the liver. IX. The formation of bile pigment after total removal of the liver. Am. Jour. Physiol., 1924, lxix, 393–409. (With F. C. Mann and T. B. Magath.)

5. Studies on the physiology of the liver. X. Uric acid following total removal of the liver. Am. Jour. Physiol., 1925, lxxii, 629–646. (With F. C. Mann and T. B. Magath.)

6. The relation of the gallbladder to the development of jaundice following obstruction of the common bile duct. Jour. Lab. and Clin. Med., 1925, x, 540–543. (With F. C. Mann.)

7. The effect of specific cholecystitis on the bile concentrating activity of the gallbladder. Jour. Lab. and Clin. Med., 1925, x, 544–547. (With F. C. Mann and P. DePage.)

8. Experimental observations on glucose as a therapeutic agent. Surg. Clin. N. Amer., 1925, v, 871–879.

9. Studies on the physiology of the liver. XI. The extrahepatic formation of bilirubin. Am. Jour. Physiol., 1925, lxxiv, 49–60. (With F. C. Mann and C. Sheard.)
10. The site of the formation of bilirubin. Am. Jour. Physiol., 1925, lxxiv, 497–510. (With F. C. Mann, C. Sheard, and E. J. Baldes.)
11. Studies on the physiology of the liver. XII. Muscle glycogen, following total removal of the liver. Am. Jour. Physiol., 1925, lxxiv, 238–248. (With F. C. Mann and T. B. Magath.)
12. Changes in the blood resulting from duodenal fistula. (A clinical and experimental study.) Jour. Am. Med. Assn., 1926, lxxxvi, 186–189. (With A. M. Kilgore and W. Walters.)
13. The formation of bile pigment from hemoglobin. Am. Jour. Physiol., 1926, lxxvi, 306–315. (With F. C. Mann, C. Sheard, and E. J. Baldes.)
14. Spectrophotometric determinations of bilirubin. Am. Jour. Physiol., 1926, lxxvi, 577–585. (With C. Sheard, E. J. Baldes, and F. C. Mann.)

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Bibliography.—1. Radium in the treatment of leukemia. Ann. Clin. Med., 1922, i, 155–156.

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Bibliography.—1. The so-called "Ochsner muscle" of the duodenum. Boston Med. and Surg. Jour., 1907, clvii, 80.

2. The technic of end-to-end arterial anastomosis with report of a case. Ann. Surg., 1911, liv, 485–495. (With A. Ehrenfried.)

3. Anesthesia. Boston Med. and Surg. Jour., 1911, clxv, 600–602.

4. Nitrous oxide-oxygen anesthesia, with a description of a new apparatus. Med. Communicat. Mass. Med. Soc., 1911, xxii, 126–138.

5. Anesthesia by intratracheal insufflation; advances in technique; a practical tube-introducer; nitrous oxide-oxygen as the anesthetic. Surg., Gynec., and Obst., 1911, xiii, 572. (With F. J. Cotton.)

6. A note on the division and circular suture of the aorta in pregnant cats. Ann. Surg., 1912, lv, 215. (With A. Ehrenfried.)

7. Nitrous oxide-oxygen-ether anesthesia: notes on administration; a perfected apparatus. Surg., Gynec., and Obst., 1912, xv, 281–289. (With F. J. Cotton.)
8. Nitrous oxide-oxygen anesthesia, with a description of a new apparatus. Boston Med. and Surg. Jour., 1912, clxvi, 86–90.
9. A self-retaining air-tight face-piece for nitrous oxide-oxygen anesthesia. Boston Med. and Surg., Jour., 1912, clxvi, 328.
10. A warning in regard to intratracheal insufflation anesthesia; the necessity of a safety valve. Boston Med. and Srug. Jour., 1912, clxvi, 486. (With F. J. Cotton.)
11. The uselessness of warming anesthetic vapors. Surg., Gynec., and Obst., 1912, xv, 724–726. (With F. J. Cotton.)
12. Note on the transplantation of fresh venous segment. Ann. Surg., 1912, lvi, 409.
13. Note on intra-thoracic surgery: division and circular suture of the thoracic aorta. Ann. Surg., 1912, lvi, 402–408.
14. Absence of apnoea after forced breathing. Jour. Physiol., 1912–1913, xlv, 328–337.
15. Ether percentages. Jour. Am. Med. Assn., 1913, lxi, 830–834.
16. Intratracheal insufflation anesthesia; considered from its physiological aspects. Ann. Surg., 1913, lvii, 43–63. (With F. J. Cotton.)
17. The calibration of the Waller gas balance and the Connell anesthetometer. Jour. Pharmacol. and Exper. Therap., 1913–1914, v, 369–392. (With Irene Sandiford.)
18. A comparison of methods of obtaining alveolar air. Arch. Int. Med., 1914, xiii, 497–506. (With F. W. Peabody.)
19. The analysis of nitrous oxide for physiological work. Am. Jour. Physiol., 1915–1916, xxxvii, 371–377. (With Irene Sandiford.)
20. The effect of work on the percentage of hemoglobin and number of red corpuscles in the blood. Am. Jour. Physiol., 1915–1916, xxxvii, 378–382. (With F. B. Berry.)
21. A determination of the circulation rate in man at rest and at work. The regulation of the circulation. Am. Jour. Physiol., 1915–1916, xxxvii, 383–417.
22. A study of the effect of division of the pulmonary branches of the vagus nerve on the gaseous metabolism, gas exchange, and respiratory mechanism in dogs. Am. Jour. Physiol., 1915–1916, xxxvii, 418–432. (With V. N. Shamoff.)
23. Distension of the lungs; its effect on the respiration in man and in normal and vagotomized dogs. Am. Jour. Physiol., 1915–1916, xxxvii, 433–451. (With F. B. Berry.)
24. The clinical value of metabolic studies of thyroid cases. Boston Med. and Surg. Jour., 1916, clxxv, 564-566.
25. The tension of carbon dioxide and the percentage saturation of the hemoglobin in the venous blood at rest and at work; the regulation of the circulation rate. Am. Jour. Physiol., 1916, xl, 547–553. (With Irene Sandiford.)
26. Gunshot wounds of the thorax. Boston Med. and Surg. Jour., 1916, clxxiv, 378–384.
27. On the difference between the carbon-dioxide tension in the arterial and venous blood as a diagnostic sign in cardiac septal defects. Internat. Assn. Med. Mus., 1916, 122–126. (With Maude E. Abbott.)
28. The tension of carbon dioxide and oxygen in the venous blood at rest and at work. Am. Jour. Physiol., 1916, xl, 134–136. (With Irene Sandiford.)
29. The value of the basal metabolic rate in the treatment of diseases of the thyroid. Med. Clin. N. Amer., 1919, iii, 603–618.
30. Basal metabolic rate determinations. Philadelphia, Saunders, 1920, 117 pp. (With Irene Sandiford.)
31. The basal metabolic rates in hyperthyroidism (lantern slides). Med. Rec., 1921, xcix, 1077–1078.
32. The parathyroid glands. A review of the literature. Endocrinology, 1921, v, 403–440.
33. A preliminary note on the food requirement in hyperthyroidism. II. A comparison of hyperthyroidism in men and in women. Med. Clin. N. Amer., 1921, v, 425–438. (With Irene Sandiford.)

34. Nomographic charts for the calculation of the metabolic rate by the gasometer method. Boston Med. and Surg. Jour., 1921, clxxxv, 337–354. (With R. B. Sandiford.)
35. The basal metabolic rate in hyperthyroidism. Jour. Am. Med. Assn., 1921, lxxvii, 252–255.
36. The fundamental classification of disease by the basal metabolic rate. Jour. Am. Med. Assn., 1921, lxxvi, 84–86.
37. Adenoma of the thyroid with hyperthyroidism (thyrotoxic adenoma). History of the recognition of this disease as a clinical entity. A study of the symptomatology with basal metabolic rates. Endocrinology, 1921, v, 1–20.
38. Total metabolism in exophthalmic goiter. Jour. Biol. Chem., 1922, l, xlvii. (With Irene Sandiford.)
39. Diseases of the parathyroid and thyroid glands. Oxford Loose-Leaf Med., 1921, iii, 831–882.
40. Diagnosis and treatment of thyroid disorders. Oxford Loose-Leaf Med., 1922, iii, 883–963.
41. A Comparison of the DuBois and the Harris and Benedict normal standards for the estimation of the basal metabolic rate. Jour. Biol. Chem., 1922, liv, 767–781. (With Irene Sandiford.)
42. Summary of the basal metabolism data on 8,614 subjects with especial reference to the normal standards for the estimation of the basal metabolic rate. Jour. Biol. Chem., 1922, liv, 783–803. (With Irene Sandiford.)
43. Clinical observations on insulin. Jour. Metab. Res., 1922, ii, 701–728. (With R. M. Wilder, C. J. Barborka, H. D. Kitchen, and S. F. Adams.)
44. The calorigenic action of adrenalin chloride. (Abst.) Am. Jour. Physiol., 1923, lxiii, 407; lxvi, 93–123. (With Irene Sandiford.)
45. The importance in surgery of the thyroid gland of the correct differential diagnosis of thyroid diseases. Ann. Surg., 1923, lxxviii, 572–576.
46. The mortality rate following operations on the thyroid gland. Jour. Am. Med. Assn., 1923, lxxx, 811–893. (With C. H. Mayo.)
47. The total and the nitrogenous metabolism in exophthalmic goiter. Jour. Am. Med. Assn., 1923, lxxxi, 795–800. (With Irene Sandiford.)
48. Drugs and basal metabolism. Jour. Pharmacol. and Exper. Therap., 1923, xxii, 99–108. (With L. G. Rowntree.)
49. Preliminary report on the effect of insulin on the rate of heat production and its significance in regard to the calorigenic action of adrenalin. Med. Clin. N. Amer., 1923, vii, 53–56. (With R. M. Wilder.)
50. The heart in exophthalmic goiter and adenoma with hyperthyroidism. Med. Clin. N. Amer., 1923, vii, 189–219. (With F. A. Willius and L. B. Wilson.)
51. The behavior of the heart in exophthalmic goiter and adenomatous goiter with hyperthyroidism. Tr. Assn. Am. Phys., 1923, xxxviii, 137–145. (With F. A. Willius and L. B. Wilson.)
52. The amino-acid nitrogen in the blood and its possible relation to the elevation of the metabolism in myelogenous leukemia. Jour. Biol. Chem., 1923, lv, xxiii–xxiv. (With Kathleen Sandiford and H. Z. Giffin.)
53. The cost of work in exophthalmic goiter. Am. Jour. Physiol., 1923, lxiii, 406–407. (With H. S. Plummer.)
54. The administration of thyroid preparations. Jour. Am. Med. Assn., 1924, lxxxiii, 1333–1335. (With H. S. Plummer.)
55. The value of iodin in exophthalmic goiter. Illinois Med. Jour., 1924, xlvi, 401–407; also Jour. Iowa State Med. Soc., 1924, xiv, 66–73. (With H. S. Plummer.)
56. The total and basal metabolism in exophthalmic goiter. Minn. Med., 1924, vii, 91–92.
57. Basal metabolism. (Editorial.) Radiology, 1924, ii, 430–431; also Phys. Rev., 1924, iv, 69–161. (With Irene Sandiford.)

58. Medical and surgical coöperation in cases of diabetes and exophthalmic goiter. (Editorial.) Surg., Gynec., and Obst., 1924, xxxviii, 272–273.
59. The use of iodin in exophthalmic goiter. Endocrinology, 1924, viii, 727–745.
60. The effect of insulin on the respiratory metabolism. Jour. Biol. Chem., 1925, lxiii, l–li. (With R. Weiss.)
61. Iodin in the prevention and treatment of goiter. Jour. Indiana State Med. Assn., 1925, xviii, 5–8.
62. The basal metabolic rate in cases of primary cardiac disease. Med. Clin. N. Amer., 1925, viii, 1171–1180. (With F. A. Willius.)
63. Some quantitative relationships of thyroxin calculated from its calorigenic action. Proc. Jour. Pharmacol. and Exper. Ther., 1925, xxv, 139. (With E. J. Baldes.)
64. The effect of thyroxin on the respiratory and nitrogenous metabolism of normal and myxedematous subjects. I. Method of studying the reserve or deposit protein with a preliminary report of the results obtained. Ergebn. d. Physiol., 1925, xxiv, 728–756. Also Tr. Assn. Am. Phys., 1925, xv, 195–229. (With Irene Sandiford, Kathleen Sandiford, and J. Slosse.)
65. Metabolism studies in exophthalmic goiter complicated by diabetes. Jour. Clin. Investigation, 1924–1925, i, 590.

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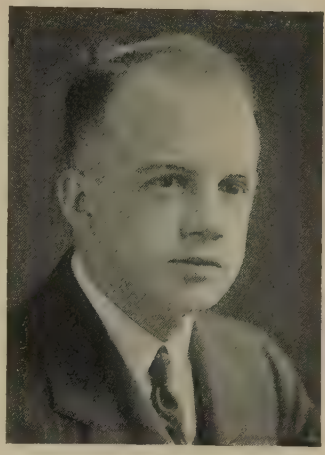

Wilbur L. Bowen

Bibliography.—1. The diagnosis of exophthalmic and so-called toxic goiter. Illinois Med. Jour., 1925, xlviii, 408–416.

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Bibliography. -1. Topical applications of radium. Am. Jour. Roentgenol., 1920, vii, 382–388.
2. Radium and x-ray therapy in inoperable carcinoma of the cervix. Med. Herald, 1921, xl, 43–46.
3. The value of radium and x-ray therapy in Hodgkin's disease. Jour. of Radiology, 1921, ii, 49–54.
4. Hodgkin's disease treated by radium and the x-ray: report of 4 cases. Surg. Clin. N. Amer., 1921, i, 1337–1342.
5. Radium and roentgen ray treatment in metastatic testicular tumors. Jour. Radiol., 1922, iii, 519–521.
6. The treatment by radiation of cancer of the rectum. Am. Jour. Roentgenol., 1923, x, 230–239. (With F. W. Anderson.)
7. The application of radium in operable or borderline cases of carcinoma of the cervix uteri before operation. Radiology, 1923, i, 199–211.
8. Microscopically proved sarcoma of the humerus. Surg. Clin. N. Amer., 1924, iv, 501–540.
9. Radium and x-ray treatment of advanced carcinoma of the breast prior to exploration. Radiology, 1924, ii, 145–150.
10. The value of definite methods of treatment in malignant and nonmalignant conditions. Med. Clin. N. Amer., 1925, viii, 1505–1520. (With J. H. Sloss.
11. Significant cellular changes observed in irradiated tissue, especially of cancer in the rectum. Radiology, 1925, v, 379–388; also Surg., Gyn. & Obst., 1925, x, 5, 48–46.
12. Surgery, radium, and roentgen rays in the treatment of carcinoma of the cervix. Tr. Assn. Res. and Ex-Res. Phys., Mayo Clinic, 1925, vi, 134–149; also Am. Jour. Obst. and Gynec., 1926, xi, 400–403.
13. Surgical diathermy for tumors of the trachea. Laryngoscope, 1926, xxx, 917–920. (With P. P. Vinson.)
14. Carcinoma of the cervix and fundus uteri treated by a combination of surgery, radium and roentgen ray. Radiology, 1926, vi, 487–492.
15. Menorrhagia and metrorrhagia due to certain benign diseases of the uterus, and their treatment by irradiation. Radiology, 1926, vii, 334–341.

Bowler, John P., B.A., M.D., M.S. in Surgery, was born January 3, 1895 in Cambridge, Massachusetts, received the degree of B.A. from Dartmouth College, Hanover, New Hampshire, in 1915, of M.D. from Harvard University, Cambridge, in 1919, and of M.S. in Surgery from the University of Minnesota in 1924; was intern at the Mary Hitchcock Hospital, Hanover, New Hampshire, one year, and junior resident physician at the Massachusetts State Infirmary, Tewksbury, Massachusetts, one year. He entered The Mayo Foundation May 1, 1921 as a fellow in surgery; his services included orthopedics, two months; general diagnosis, one year; operative surgery, fifteen months; urology, six months, and surgical pathology, three months. He left The Mayo Foundation July 1, 1924, and is now a member of the surgical staffs of the Hitchcock Hospital and of the Dartmouth Medical School, Hanover, New Hampshire. He is a member of the Oliver Wendell Holmes Medical Society (Boston), the New Hampshire Medical Society, the New Hampshire Surgical Club, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Theta Delta Chi, Gamma Alpha, and Alpha Kappa Kappa. His address is Dartmouth Medical School, Hanover, New Hampshire.

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Bibliography. 1. Diseases which may be associated with pernicious anemia. Minn. Med., 1923, vi, 13–16. (With H. Z. Giffin.)

2. Preoperative preparation of patients with obstructive jaundice. An experimental study of toxicity of intravenous calcium chlorid used in preparation of patients. Surg., Gynec., and Obst., 1924, xxxix, 200–206. (With W. Walters.)

3. The toxicity and rate of excretion of calcium chlorid from the blood stream. Ann. Surg., 1924, lxxx, 545–550. (With W. Walters.)

4. The effect of intravenous injections of calcium chlorid on the kidneys. Jour. Am. Med. Assn., 1924, lxxxiii, 1232–1236. (With W. Walters.)

5. The management of obstructive jaundice as a factor affecting surgical risk. Boston Med. and Surg. Jour., 1925, cxciii, 1045–1050.

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Bibliography.—1. The relation of the accessory sinuses to chronic nontuberculous bronchitis. Tr. Assn. Res. and Ex-Res. Phys., Mayo Clinic, 1925, vi, 197–210.

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Bibliography.—1. Hyperhidrosis of the cheek associated with injury to the parotid region. Minn. Med., 1922, v, 652–657. (With G. B. New.)
2. Chronic suppurative otitis media. Ann. Otol., Rhinol., and Laryngol., 1923, xxxii, 277–284.

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Bibliography.—1. Various laboratory methods employed in Vienna clinics. Jour. Minnesota Med. Assn., 1906, xxvi, 98–100.
2. Relation of anomalous renal blood vessels to hydronephrosis. Jour. Am. Med. Assn., 1909, lii, 1383–1388. (With W. J. Mayo and W. C. MacCarty.)
3. Some data acquired with the aid of the ureteral catheter. Surg., Gynec., and Obst., 1909, ix, 461–465; also Tr. Am. Urol. Assn., 1909, iii, 340–350.
4. Examination of the surgical kidney. St. Paul Med. Jour., 1910, xii, 506–510.
5. Deformities of the renal pelvis. Ann. Surg., 1910, li, 534–540.
6. Recent developments in pyelography. Ann. Surg., 1910, lii, 645–653; also Tr. Am. Urol. Assn., 1910, iv, 195–202.
7. The value of pyelography. Jour. Am. Med. Assn., 1911, lvii, 1986–1988.
8. The radiograph shadow and the cystoscope. Surg., Gynec., and Obst., 1911, xii, 374–378.
9. Diagnostic aids in surgery of the renal pelvis and ureter with special reference to pyelography. Old Dominion Jour. Med. and Surg., 1911–1912, xiii, 269–276; also Lancet-Clinic, 1912, cvii, 546–549.
10. A neglected principle in cystoscopy. Am. Jour. Urol., 1912, viii, 115–119.

11. The results of the early diagnosis of urinary tuberculosis. Interstate Med. Jour., 1912, xix, 863–869; also New York State Jour. Med., 1912, xii, 599–603.
12. The clinical diagnosis of congenital anomaly in the kidney and ureter. Ann. Surg., 1912, lvi, 726–737.
13. Clinical observations from 203 patients operated on for renal tuberculosis. Jour. Am. Med. Assn., 1912, lviii, 397–401; also Tr. Am. Urol. Assn., 1911, v, 190–202.
14. The clinical diagnosis of congenital anomaly in the kidney and ureter. Tr. Am. Assn. Genito-Urin. Surg., 1913, viii, 281–292; also Ann. Surg., 1912, lvi, 726–737.
15. Recent progress in uretero-pyelography. Jour. Mich. Med. Soc., 1913, xii, 189–191.
16. Clinical data on malignant renal tumors. Jour. Am. Med. Assn., 1913, lx, 274–278.
17. Clinical observations on essential hematuria. Jour. Am. Med. Assn., 1913, lxi, 936–939.
18. Clinical data on renal lithiasis. Jour. Tenn. Med. Assn., 1913–1914, vi, 209–214; also Journal-Lancet, 1913, xxxiii, 561–564.
19. The function of the ureterovesical valve; an experimental study of the feasibility of ureteral meatotomy in human beings. Jour. Am. Med. Assn., 1913, lx, 20–27. (With J. W. Draper.)
20. Infections of the renal pelvis and ureter. Texas State Jour. Med., 1913–1914, ix, 305–308.
21. Clinical notes on hydronephrosis. Interstate Med. Jour., 1914, xxi, 1180–1188.
22. Factors which determine the advisability of prostatectomy. St. Paul Med. Jour., 1915, xvii, 1–8.
23. The practical value of chemical tests of renal function in surgical conditions of the urinary tract. Jour. Am. Med. Assn., 1915, lxiv, 104–108. (With G. J. Thomas.)
24. Pyelography. Internat. Abstr., Surg. Suppl. Surg., Gynec., and Obst., 1915, xx, 117–123. (With F. Wildner.)
25. Pyelography (pyeloureterography); a study of the normal and pathologic anatomy of the renal pelvis and ureter; containing 296 pyelograms. Philadelphia, Saunders, 1915, 313 pp.
26. Stones in the ureter. Jour. Am. Med. Assn., 1915, lxv, 1234–1237. (With A. B. Moore.)
27. Significance of vesical symptoms in the diagnosis of renal conditions. St. Paul Med. Jour., 1915, xvii, 720–725; also Tr. Am. Assn. Genito-Urin. Surg., 1915, x, 283–289; Tr. Am. Gynec. Soc., 1915, xl, 292–299; Internat. Jour. Surg., 1915, xxviii, 412–414.
28. Perinephritic abscesses. Surg., Gynec., and Obst., 1915, xxi, 631–635; also California State Jour. Med., 1916, xiv, 14–17; Tr. Am. Assn. Genito-Urin. Surg., 1915, x, 99–108.
29. Clinical data of polycystic kidney. Surg., Gynec., and Obst., 1916, xxiii, 697–702.
30. Effects of retention in the kidney of media employed in pyelography. Am. Jour. Med. Sc., 1916, clii, 336–347. (With F. C. Mann.)
31. The advisability of prostatectomy in the presence of cord lesion. Am. Jour. Syph., 1917, i, 752–759; also Illinois Med. Jour., 1917, xxxii, 229–233. (With E. S. Judd.)
32. Clinical data of nephrolithiasis. Surg., Gynec., and Obst., 1917, xxiv, 8–14.
33. Recent observations in cystoscopic technic. Ann. Surg., 1917, lxv, 615–620.
34. Tumors of the bladder and their nonoperative treatment. Minn. Med., 1918, i, 168–174.
35. Lithiasis with bilateral renal involvement. Boston Med. and Surg. Jour., 1918, clxxviii, 292–298; also Minn. Med., 1918, i, 252–256.
36. Median bar excisor. Jour. Am. Med. Assn., 1918, lx, 758–759.
37. The prognosis of surgical renal tuberculosis. Med. Record, 1918, xciv, 87–88.
38. Roentgenographic diagnosis in renal tuberculosis. Surg., Gynec., and Obst., 1919, xxviii, 555–561.
39. Dilatation of the ureter and renal pelvis. Jour. Am. Med. Assn., 1919, lxxiii, 731–737.

40. Renal fluoroscopy at the operating table. Jour. Am. Med. Assn., 1919, lxxiii, 1751–1752.
41. Surgical renal tuberculosis: the prognosis. Am. Jour. Med. Sc., 1920, clix, 8–19.
42. Recent advance in the diagnosis of surgical lesions of the kidney. Minn. Med., 1920, iii, 112–118.
43. Conditions contraindicating operation with stone in kidney and ureter. Jour. Am. Med. Assn., 1920, lxxiv, 278–279; also Minn. Med., 1920, iii, 387–391.
44. Occluded renal tuberculosis. Jour. Am. Med. Assn., 1920, lxxv, 1307–1310.
45. Roentgen examination of the urinary tract made opaque. Am. Jour. Roentgenol., 1920, vii, 584–587.
46. Relation of urology to group medicine. Jour. Urol., 1921, vi, 267–276. Discussion, 277–283; also Tr. Assn. Res. and Ex-Res. Phys. of the Mayo Clinic, 1922, iii, 127–135.
47. Clinical investigation of the phenolsulphonephthalein test. Jour. Urol., 1921, v, 127–132; also Tr. Am. Urol. Assn., 1921, xii, 133–141. (With E. C. Kendall.)
48. Summary of recent progress in urology. Minn. Med., 1922, v, 285–289.
49. Atrophic pyelonephritis. Jour. Urol., 1922, vii, 247–257; also Northwest Med., 1921, xxi, 1–5.
50. Duplication of the renal pelvis and ureter. Papillary epithelioma of the renal pelvis. Report of two cases. Minn. Med., 1922, v, 438.
51. Preoperative treatment by radium of malignant tumors of the bladder. Arch. Surg., 1922, v, 334–347; also Radium, 1922, i, 209–222. (With A. J. Scholl.)
52. Horseshoe kidney. Jour. Am. Med. Assn., 1922, lxxix, 1189–1195. (With E. S. Judd and A. J. Scholl.)
53. Pathologic complications with duplication of the renal pelvis and ureter (double kidney). Jour. Urol., 1922, viii, 507–558; also Surg., Gynec., and Obst., 1922, xxxv, 401–407. (With A. J. Scholl.)
54. Primary tumors of the urethra. Ann. Surg., 1922, lxxiv, 246–259. (With A. J. Scholl.)
55. Renal torsion. Jour. Urol., 1923, ix, 53–62; also Tr. Am. Assn. Genito-Urin. Surg., 1922, xv, 33–42.
56. The future of the Southern Minnesota Medical Association. Minn. Med., 1923, vi, 127–128.
57. The relation of the general practitioner to the urologist. Minn. Med., 1923, vi, 128–131.
58. Postoperative results of nephrolithiasis. Jour. Urol., 1924, xi, 525–537. (With G. S. Foulds.)
59. A study of histology and mortality in renal tumors. Surg. Clin. N. Amer., 1924, iv, 407–424. (With A. J. Scholl and G. S. Foulds.)
60. Renal fluoroscopy at the operating table. Radiology, 1924, ii, 222–226. (With R. D. Carman.)
61. Possible errors in the diagnosis of renal tuberculosis. Jour. Am. Med. Assn., 1924, lxxxii, 688–692. (With A. J. Scholl.)
62. Excerpts from articles on urologic surgery with comments. Arch. Surg., 1924, viii, 681–704. (With E. S. Judd, A. J. Scholl, and L. D. Keyser.)
63. Recent progress in urology. Tr. Assn. Res. and Ex-Res. Phys. of the Mayo Clinic, 1924, v, 61–63. (With review), Jour. Urol., 1925, xiv, 183–192.
64. A simple table for cystoscopy and roentgenography. Jour. Urol., 1925, xiii, 247–250. (With H. C. Bumpus, Jr.)
65. Differential diagnosis in diseases of the urinary tract. Med. Clin. N. Amer., 1925, viii, 1109–1124.
66. Data with regard to lesions of the nerves of the urinary tract. Jour. Urol., 1925, xiii, 383–398.

67. Mercurochrome, gentian violet, and hexyl-resorcinol as antiseptics. (Editorial.) Minn. Med., 1925, viii, 313–314.
68. Urography. (Editorial.) Surg., Gynec., and Obst., 1925, xli, 114–115.
69. The pyelographic and roentgenologic diagnosis of renal tumors. Radiology, 1925, iv, 445–452. (With R. D. Carman.)
70. Errors in the interpretation of urographic findings. Jour. Urol., 1925, xiv, 631–651.
71. The recognition and treatment of urinary infection. Journal-Lancet, 1925, xlv, 585–589; also Northwest Med., 1926, xxv, 76–80.
72. Clinical data in cases of renal lithiasis. Illinois Med. Jour., 1925, xlvii, 284–287; also Jour. Iowa State Med. Soc., 1926, xvi, 33–35.
73. Clinical results with intravenous chemotherapy in urinary infections. Jour. Urol., 1926, xv, 341–349. (With H. C. Bumpus, Jr.)
74. Renal complications of benign prostatic obstruction. Proc. Inter-State Post. Grad. Assembly N. Amer., 1925, 427–428; also Illinois Med. Jour., 1926; Jour. Iowa State Med. Soc., 1926. (In press.)

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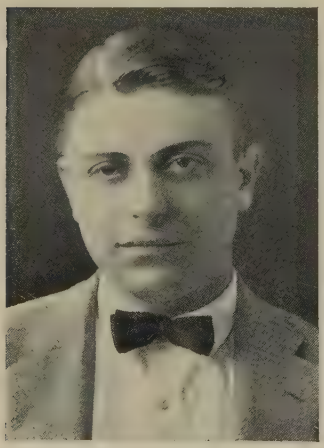

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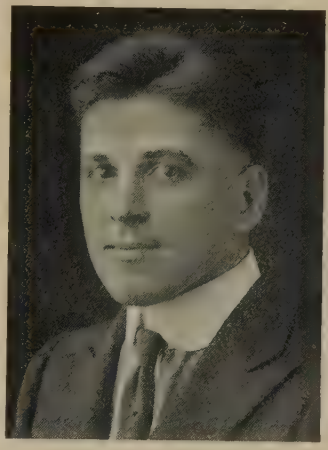

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Bibliography.—1. Cardiospasm. Southwest Jour. Med. and Surg., 1922, xxx, 5–6.
2. Spheno-palatine ganglion headaches. Jour. Oklahoma State Med. Assn., 1922, xv, 321–324.
3. Cardiospasm. Jour. Oklahoma State Med. Assn., 1923, xvi, 15–17.
4. Treatment of sinusitis in children. Jour. Oklahoma State Med. Assn., 1925, xviii, 2–4.

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Bibliography.—1. Pathologic conditions noted in laboratory animals. Jour. Am. Vet. Med. Assn., 1917, lii, 195–204. (With F. C. Mann.)
2. The relation of the common bile duct to the pancreatic duct in common domestic and laboratory animals. Jour. Lab. and Clin. Med., 1919–1920, v, 203–206. (With F. C. Mann and J. P. Foster.)
3. The extrahepatic biliary tract in common domestic and laboratory animals. Anat. Rec., 1920–1921, xviii, 47–66. (With F. C. Mann.)
4. A case of purpura hemorrhagica with special reference to the use of epinephrin. Jour. Am. Vet. Med. Assn., 1921, lix, 762–766. (With J. G. Hardenbergh.)
5. A study of so-called kennel lameness: Preliminary report. Jour. Am. Vet. Med. Assn., 1922, lxi, 145–154. (With J. G. Hardenbergh.)

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Bibliography.—1. Chronic arthritis. A clinical and bacteriologic study of eighty cases. Papers from The Mayo Foundation and Medical School of the University of Minnesota, Philadelphia, Saunders, 1921–1922, ii, 502–515.

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Bibliography.—1. The iodin content of the thyroid gland, with special reference to the pathologic types and a review of some experimental work. Jour. Am. Med. Assn., 1914, lxii, 113–117. (With E. V. Smith.)

2. Chronic gastric ulcer and its relation to gastric carcinoma. Arch. Int. Med., 1914, xiii, 208–223. (With W. C. MacCarty.)

3. Melano-epithelioma; report of seventy cases. Surg., Gynec., and Obst., 1916, xxiii, 28–32. (With W. C. MacCarty.)

4. Studies in clinico-pathologic standardization and efficiency. 1. Legitimate actual error in diagnosis of mammary conditions. Surg., Gynec., and Obst., 1917, xxv, 666–673. (With W. C. MacCarty.)

5. Tuberculosis of the stomach, with report of a case of multiple tuberculous ulcers. Surg., Gynec., and Obst., 1917, xxv, 490–504.

6. Epithelioma. Surg., Gynec., and Obst., 1918, xxvii, 141–151. (With W. C. MacCarty.)

7. Tuberculosis associated with malignant neoplasia. Jour. Am. Med. Assn., 1919, lxxii, 390–394.

8. Basal-cell epithelioma. Jour. Am. Med. Assn., 1919, lxxii, 856–860.

9. Benign xanthic extraperiosteal tumor of the extremities containing foreign body giant cells. Ann. Surg., 1919, lxx, 575–582.

10. Squamous-cell epithelioma of the lip. Jour. Am. Med. Assn., 1920, lxxiv, 656–664.

11. Squamous-cell epithelioma of the skin. A study of 256 cases. Ann. Surg., 1921, lxxiii, 141–160.

12. Primary lymphosarcoma of the stomach. A report of twelve cases. Jour. Lab. and Clin. Med., 1921, vi, 249–252. (With A. E. Mahle.)

13. The rôle of the pathologist in the practice of medicine. Jour. Lab. and Clin. Med., 1919, iv, 687–690. (With W. C. MacCarty.)

14. Tuberculosis of the thyroid. Minn. Med., 1920, iii, 279–283, (With W. A. Plummer.)

15. Epithelioma of the ear: A study of sixty-three cases. Surg. Clin. N. Amer., 1921, i, 1401–1410.

16. Epithelioma of genito-urinary organs. Ann. Surg., 1922, lxxv, 574–604.

17. Some practical surgical pathologic observations and deductions. Jour. Am. Med. Assn., 1923, lxxx, 104–105.

18. Cancer's self-control. Med. Jour. and Rec., 1925, cxxi, 133–135.

19. Epithelioma of the cavities and internal organs of the head and neck. Arch. Surg., 1925, xi, 43–73.

20. The grading of carcinoma. Minn. Med., 1925, viii, 726–730.

21. A case of squamous-cell epithelioma of the stomach. Jour. Lab. and Clin. Med., 1925, xi, 258–259. (With P. P. Vinson.)

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Bibliography.—1. Actinomycosis of the gastro-intestinal tract. Jour. Lab. and Clin. Med., 1922, viii, 180–189.

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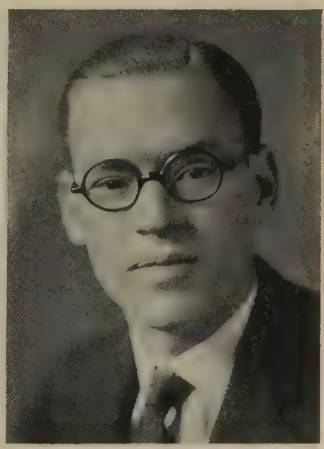
Bibliography.—1. The practical use of tuberculin in diagnosis. Jour. Minn. State Med. Assn., 1911, xxxi, 182–185.
2. A neosalvarsan fatality. Urol. and Cutan. Rev., 1915, xix, 378.
3. An unusual stomach case, with roentgenographic findings. Jour. Am. Med. Assn., 1916, lxvi, 1918–1919.
4. Arsenobenzol in syphilis. Journal-Lancet, 1916, xxxvi, 740–741.
5. A case of mercuric chlorid poisoning, with special reference to the Lambert treatment Jour. Am. Med. Assn., 1917, lxviii, 1622–1623.
6. Orthostatic-lordotic albuminuria with report of a case. Journal-Lancet, 1918, xxxviii, 31–33.
7. Paralysis of recurrent laryngeal nerve, associated with mitral stenosis. Report of a case. Jour. Am. Med. Assn., 1918, lxx, 4–6. (With B. E. Hempstead.)
8. Syphilitic aortitis and its early recognition. Am. Jour. Med. Sec., 1919, clvii, 41–54.
9. Acute infectious aortitis with report of cases. Ann. Med., 1920, i, 254–265.
10. The work of the Rockefeller Commission in France. Minn. Med., 1920, iii, 534–536.
11. The Meltzer-Lyon method in the diagnosis of infections of the biliary tract. Jour. Am. Med. Assn., 1920, lxxv, 1414–1416.
12. Capillary observations in cardiovascular renal disease. Ann. Clin. Med., 1922, i, 69–77.
13. The anemia of chronic nephritis. Arch. Int. Med., 1922, xxx, 817–840. (With Grace M. Roth.)
14. Toxic nephritis in pyloric and duodenal obstruction. Renal insufficiency complicating gastric tetany. Arch. Int. Med., 1923, xxxii, 425–455. (With G. B. Eusterman, H. R. Hartman, and L. G. Rowntree.)
15. Studies of capillaries and blood volume in polycythemia vera. Am. Jour. Med. Sc., 1923, clxvi, 489–502. (With H. Z. Giffin.)
16. Prognostic value of anemia in chronic glomerular nephritis. Jour. Am. Med. Assn., 1923, lxxxi, 1948–1950. (With Grace M. Roth.)
17. Report of a case of malignant hypertension and certain clinical and therapeutic features of a series of cases. Med. Clin. N. Amer., 1923, vii, 221–232.
18. Blood and plasma volume in obesity. Arch. Int. Med., 1924, xxxiii, 217–223. (With N. M. Keith.)
19. Coronary sclerosis. An analysis of eighty-six necropsies. Am. Jour. Med. Sc., 1924, clxviii, 165–180. (With F. A. Willius.)
20. The volume and composition of the blood, and the changes incident to diuresis, in cases of edema. Arch. Int. Med., 1925, xxv, 129–146. (With L. G. Rowntree.)
21. Volume and composition of the blood in Addison's disease. Am. Jour. Med. Sc., 1925, clxix, 47–59. (With Grace M. Roth.)
22. The skin capillaries in Raynaud's disease. Arch. Int. Med., 1925, xxxv, 56–73.
23. Skin capillaries in scleroderma. Arch. Int. Med., 1925, xxxvi, 73–88. (With P. A. O'Leary.)
24. Right-sided carotid pulsations in cases of severe hypertension. Jour. Am. Med. Assn., 1925, lxxxiv, 1016–1019. (With L. G. Rowntree.)
25. Three cases of vascular disease affecting the feet. (Thrombo-angiitis obliterans, Raynaud's disease, and erythromelalgia.) Med. Clin. N. Amer., 1925, viii, 1189–1202.
26. Calorimetric studies of the extremities following lumbar sympathetic ramisection and ganglionectomy. Am. Jour. Med. Sc., 1925, clxx, 232–240. (With A. W. Adson.)

27. A tintometer for the analysis of the color of the skin. Am. Jour. Med. Sc., 1925, clxx, 341–347. (With L. G. Rowntree.)
28. Treatment of Raynaud's disease by lumbar ramisection and ganglionectomy and perivascular sympathetic neurectomy of the common iliacs. Jour. Am. Med. Assn., 1925, lxxxiv, 1908–1910.
29. A method of instantaneous photomicrography of the skin capillaries. Jour. Lab. and Clin. Med., 1925, x, 925–929. (With C. Sheard.)
30. Vasodilatation following sympathetic neurectomy. Am. Heart Jour., 1925, i, 144–150. (With L. G. Rowntree.)
31. The blood in cases of hypertension: The relationship between anemia and renal insufficiency. Ann. Clin. Med., 1926, iv, 463–467. (With S. F. Adams.)
32. Studies of the vascular changes in cases of polycythemia vera. Am. Jour. Med. Sc., 1926, clxxi, 157–168. (With H. Z. Giffin.)

Brown, Philip W., B.A., M.D., was born January 12, 1896 in Silverton, Colorado; received the degree of B.A. from the University of Colorado in 1917 and of M.D. from the University of Pennsylvania in 1920, and was intern in the Presbyterian Hospital, Philadelphia, one year. He entered The Mayo Foundation September 1, 1921 as a fellow in medicine; his services have included dermatology and syphilology, four months, and general diagnosis, four years. He was appointed first assistant in one of the sections on medicine, Mayo Clinic, October 1, 1924, and associate April 1, 1925. He is an instructor in medicine, The Mayo Foundation, Graduate School, University of Minnesota. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Delta Tau Delta, Phi Rho Sigma, and Alpha Chi Sigma. He married Elsie M. Tillinghast October 11, 1922. His address is Rochester, Minnesota.



Philip W. Brown

Bibliography.—1. Two hundred syphilitic patients whose chief complaint was "stomach trouble"; an interpretative analysis of the diagnosis of syphilis in consultant medical practice. Am. Jour. Med. Sc., 1922, clxiv, 867–884. (With J. H. Stokes.)
2. Duodenal enzymes in chronic ulcerative colitis. Med. Clin. N. Amer., 1923, vii, 97–104.
3. Tuberculomas of the bowel. Med. Clin. N. Amer., 1924, iv, 369–378.
4. The nature, incidence, and treatment of endamebiasis. Jour. Am. Med. Assn., 1926, lxxxvi, 457–462.

Brown, Rollo O., M.D., was born May 7, 1895 in Wilkinsburg, Pennsylvania; attended Western Reserve University, Cleveland, from 1912 to 1913, and received the degree of M.D. from the University of Pennsylvania in 1920. He was Special Student at The Mayo Foundation during the summers of 1918, 1919, and 1920; his services included experimental bacteriology, six months, and surgical research, three months. He was intern in Queen's Hospital, Honolulu, from October, 1920 to January, 1922, and practiced medicine in Honolulu from November, 1921 to March, 1922. He entered The Mayo Foundation April 1, 1922 as a fellow in surgery; his services consisted of general diagnosis, one year; operative surgery, one year, and urology, six months. He left The Mayo Foundation September 25, 1924, to resume practice in Honolulu. He married Marie Mead September 27-1924. His address is 37 Young Building, Honolulu, T. H.

Rollo O. Brown

Bibliography.—1. A study on the etiology of cholecystitis and its production by the injection of streptococci. Arch. Int. Med., 1919, xxiii, 185–189.

2. A study of the effects of radium on normal brain tissue. A preliminary report. Surg., Gynec., and Obst., 1920, xxxi, 239–242. (With C. S. Williamson and J. W. Butler.)

3. The permeability of the intestinal mucosa to certain types of bacteria, determined by culture from the thoracic duct. Am. Jour. Med. Sc., 1923, clxv, 480–486. (With C. S. Williamson.)

Bryan, Albert W., B.S., M.D., M.S. in Medicine, was born September 7, 1896 in Forest City, Iowa; received the degree of B.S. in 1918, and of M.D. in 1920, from the University of Iowa, and of M.S. in Medicine in 1925 from the University of Minnesota; was intern at the West Side Hospital, Chicago, three months, and at St. Francis Hospital, La Crosse, Wisconsin, three months, and in the medical department of the University of Iowa Hospital, Iowa City, from 1920 to 1921. He entered The Mayo Foundation July 1, 1921 as a fellow in medicine; his services included radium therapy, three months; medical hospital residence, eleven months; obstetrics (Medical School, Minneapolis), four months; dermatology and syphilology, three

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months; general diagnosis, nine months; neurology, six months, and pathologic anatomy, six months. He left The Mayo Foundation December 22, 1924, and is now in practice in Lincoln, Nebraska. He is a member of the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. His address is 607 Security Mutual Building, Lincoln, Nebraska.

Bibliography.—1. An improved alimentary glucose tolerance test. Jour. Metabolic Res., 1922, i, 549–560. (With Carol Beeler, E. P. Cathcart, and R. Fitz.)
2. Clinical and experimental studies on sodium benzoate. The value of the sodium benzoate test of renal function, and the effect of injury of the liver on hippuric acid synthesis. Jour. Clin. Investigation, 1925, ii, 1–33.

Buchanan, J. Arthur, M.D., M.S. in Medicine, was born September 7, 1887 in Lewisville, Pennsylvania; received the degree of M.D. in 1915 from the University of Pennsylvania, where he also took a two years' premedical course, and of M.S. in Medicine from the University of Minnesota in 1922; was intern at Long Island College Hospital, Brooklyn, New York, from 1915 to 1917; and served as Captain, Medical Corps, A. E. F., stationed at the Field Hospital and Dressing Station of the Seventy-ninth Division, during the war. He entered The Mayo Foundation as a fellow in medicine April 26, 1919; his services included general diagnosis, twenty-one months; neurology, six months; medical hospital residence, three months, and clinical pathology, six months. He left The Mayo Foundation April 30, 1922, and was internist at the Pueblo Clinic, Pueblo, Colorado, until August, 1924. He is now practicing medicine in New York, and is an instructor at the Long Island Hospital Medical School. He is a member of the King County Medical Association, the Medical Society of the State of New York, and American Medical Association. He married Helen D. Bryers July 1, 1919. His address is 510 Ocean Avenue, Brooklyn, New York.

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Bibliography.—1. A study of the hereditary factors of epilepsy. Minn. Med., 1920, iii, 536–538.
2. The Mendelianism of migraine. Med. Rec., 1920, xcviii, 807–808.
3. The familial distribution of the migraine-epilepsy syndrome. New York Med. Jour., 1921, cxiii, 45–47.
4. A study of the S-T interval in one thousand and twenty-eight electrocardiograms. Arch. Int. Med., 1921, xxviii, 484–494.
5. The abdominal crises of migraine. Jour. Nerv. and Ment. Dis., 1921, liv, 406–412.

6. The relationship of blood-groups to disease. Brit. Jour. Exper. Path., 1921, ii, 247–255. (With Edith T. Higley.)
7. Medicolegal application of the blood group. Jour. Am. Med. Assn., 1922, lxxviii, 89–92; lxxix, 180–181.
8. The phenomena of Raynaud's disease. Am. Jour. Med. Sc., 1922, clxiv, 14–30.
9. Theories and theorizers connected with the development of the laws of heredity. New York Med. Jour., 1923, cxvii, 193–202.
10. A consideration of the laws of heredity and their application to various conditions in man. Am. Jour. Med. Sc., 1923, clxv, 675–708.
11. Usual and unusual cases of angina pectoris. Jour. Kansas Med. Soc., 1923, xxiii, 59–63.
12. Clinical classification of goiter. Colorado Med., 1923, xx, 160–165.
13. Insulin treatment of diabetes mellitus. Southwest. Med., 1923, vii, 322–327.
14. Exophthalmic goiter and diabetes mellitus. Med. Jour. and Rec., 1924, cxix, 11–13.
15. Results of surgery for migraine. Surg., Gynec., and Obst., 1924, xxviii, 638–639.
16. Frequency and types of irregular pulses. Jour. Kansas Med. Soc., 1924, xxiv, 162–165.
17. Frequently encountered malady, chronic nervous exhaustion. Colorado Med., 1924, xxi, 202–207.
18. Iodine in the treatment of hyperthyroidism. Med. Jour. and Rec., 1924, cxx, 599–600.
19. Abdominal crises of migraine. Boston Med. and Surg. Jour., 1925, cxcii, 667–668.

Bueermann, Winfred H., B.Sc., M.D., was born April 24, 1895 in Detroit, Michigan; received the degree of B.Sc. in 1917 from McMinnville College, McMinnville, Oregon; attended the University of Oregon Medical School from 1917 to 1919; received the degree of M.D. in 1921 from Columbia University, College of Physicians and Surgeons, and was intern at Christ Hospital, Jersey City, from July 1, 1921 to October 10, 1922, when he entered The Mayo Foundation as a fellow in surgery. His services thus far have included postoperative treatment, three months; general diagnosis, one year; surgical pathology, three months; orthopedic surgery, three months, and operative surgery, eighteen months. He was appointed first assistant in one of the sections on surgery July 1, 1925. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Nu Sigma Nu. He married Gladys M. Champion June 7, 1921. His address is Rochester, Minnesota.

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Bibliography.—1. Recurring epileptiform attacks with symptoms of spasm at the cardia; report of three cases. Med. Clin. N. Amer., 1925, viii, 1341–1349. (With A. B. Rivers.)

Buie, Louis A., B.A., M.D., was born July 30, 1890 in Kingstree, South Carolina; received the degree of B.A. from the University of South Carolina in 1911, and of M.D. from the University of Maryland in 1915; was intern in the University of Maryland Hospital five months in 1915, and in the Kernan Hospital, Baltimore, from November, 1915 to February, 1917; and conducted orthopedic clinics in the University of Maryland dispensary in 1916 and 1917. He entered The Mayo Foundation as a fellow in surgery February 1, 1917, and transferred his major to medicine June 1, 1919; his service consisted of general diagnosis, eighteen months. From July, 1918 to April, 1919 he was First Lieutenant, Medical Corps, stationed at Base Hospital 102, in Italy. In June, 1919 he was appointed on the permanent staff of the Mayo Clinic as associate in one of the sections on medicine. He is now head of the Section on Proctology. He is assistant professor of surgery, The Mayo Foundation, Graduate School, University of Minnesota. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the American Medical Association, the American Proctologic Society, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Zelma Jones August 19, 1920. His address is Rochester, Minnesota.

Louis A. Buie

Bibliography.—1. A safe method of removing sigmoidal polyps and high rectal polyps. Med. Clin. N. Amer., 1921, vi, 419–423.

2. The importance of proctoscopic examination. Med. Clin. N. Amer., 1923, vii, 113–121.

3. Benign strictures of the rectum. Jour. Am. Med. Assn., 1923, lxxxi, 1357–1361.

4. Carcinoma of the rectum, rectosigmoid, and sigmoid. Surg. Clin. N. Amer., 1924, iv, 361–367.

5. The value of proctology in general practice. Minn. Med., 1924, vii, 604–605.

6. The diagnosis and treatment of the more common diseases of the anus, rectum, and sigmoid. Surg. Clin. N. Amer., 1925, v, 829–854.

7. Diagnosis of carcinoma of the rectum and sigmoid. Arch. Clin. Cancer Res., 1925, i, 27–30.

8. Technique for the removal of hemorrhoids. Ann. Surg., 1925, lxxxii, 964–967.

9. Sacral anesthesia in rectal surgery. Tr. Am. Proctol. Soc., 1925. (With C. F. McCuskey.)

10. An observerscope for proctoscopy. Surg., Gynec., and Obst., 1926, xlii, 285.

Bull, Henry C. H., M.C., B.A., M.A., M.B., Ch.B., M.R.C.S., L.R.C.P., M.R.C.P., was born April 27, 1892 in Stony Stratford, England; received the degree of B.A. in 1912, of M.A., M.B., and Ch.B. in 1919, from Caius College, Cambridge, England; of M.R.C.S. and L.R.C.P. in 1918, and of M.R.C.P. in 1920, from St. George's Hospital, London; was on active duty with the British Infantry from 1914 to 1917; was intern at St. George's Hospital from 1918 to 1920, and consulting physician, medical registrar, and instructor in clinical medicine at this institution from 1920 to 1921, and made researches in arteriosclerosis and fat embolism under the direction of the Commission of Medical Research at this hospital. He entered The Mayo Foundation May 27, 1921 as a special student in medicine; his services included neurology, two and one-fourth months; general diagnosis, six months, and roentgenology, nine months. He left The Mayo Foundation in October, 1922, and returned to St. George's Hospital. He is a member of the Royal College of Physicians, London, and the Royal Society of Medicine, London. He was married in 1925. His address is 27 Devonshire Place, London, England.

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Bibliography.—1. Medical practice in North America. Brit. Med. Jour., 1923, ii, 538–539.

Bumpus, Hermon C., Jr., Ph.B., M.D., M.S. in Urology, F.A.C.S., was born August 9, 1888 in Dorchester, Massachusetts; received the degree of Ph.B. from Brown University, Providence, Rhode Island, in 1912, of M.D. from Harvard University, Cambridge, Massachusetts, in 1915, and of M.S. in Urology from the University of Minnesota in 1920. He entered The Mayo Foundation July 1, 1915 as a fellow in urology; his services included surgery, twelve and one-half months; general diagnosis, nine and one-half months, and urology, nine months. From February, 1918, to January, 1919 he served as First Lieutenant, Medical Corps, U. S. A., stationed first at Fort Riley and later at Base Hospital 102. He was appointed associate in the Section on

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Urology, Mayo Clinic, and assistant professor of urology, The Mayo Foundation, Graduate School, University of Minnesota, July 1, 1920. He is a member of the Olmsted County Medical Society, the Southern Minnesota Medical Association, the Minnesota State Medical Association, the American Association of Genito-urinary Surgeons, the American Urological Society, the American Medical Association, the American College of Surgeons, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and a diplomate of the National Board of Medical Examiners. He married Helen McBurnie December 29, 1915. His address is Rochester, Minnesota.

Bibliography.—1. Rupture of the common bile-duct associated with subphrenic abscess. Ann. Surg., 1916, lxiv, 414–418.

2. A report of bacterial vaccine therapy in a series of prostatic cases. Jour. Am. Med. Assn., 1918, lxx, 213–215.

3. Diverticula of the posterior urethra. Surg., Gynec., and Obst., 1919, xxix, 388–392.

4. Radium therapy in cancer of the prostate. Med. Clin. N. Amer., 1919, iii, 707–712.

5. Prognosis in cases of carcinoma of the prostate discovered at operation. Surg. Clin. N. Amer., 1921, i, 1279–1290. (With E. S. Judd and A. J. Scholl, Jr.)

6. Carcinoma of the prostate. A clinical Study. Surg., Gynec., and Obst., 1921, xxxii, 31–43.

7. Focal infection and selective localization of streptococci in pyelonephritis. Study I. Arch. Int. Med., 1921, xxvii, 326–337. (With J. G. Meisser.)

8. Submucous ulcer of the bladder in the male. Jour. Urol., 1921, v, 249–253.

9. Foci of infection in cases of pyelonephritis. Study II. Jour. Am. Med. Assn., 1921, lxxvii, 1475–1479. (With J. G. Meisser.)

10. The relation of focal infection to diseases of the urinary tract. Med. Clin. N. Amer., 1921, v, 479–482.

11. Focal infections in relation to submucous ulcer of the bladder and to cystitis. Jour. Urol., 1921, vi, 285–298. (With J. G. Meisser.)

12. Radium in cancer of the prostate: A report of two hundred and seventeen cases. Jour. Am. Med. Assn., 1922, lxxviii, 1374–1376. Also Radium, 1922, i, 209–221.

13. Cancer of the prostate. A comparison of results obtained by radium and surgical treatment. Surg., Gynec., and Obst., 1922, xxxv, 177–180.

14. Roentgen rays and radium in the diagnosis and treatment of carcinoma of the prostate. Am. Jour. Roentgenol., 1922, ix, 269–287.

15. Results obtainable by the co-operation of dentist and physician. Dental Cosmos, 1922, lxiv, 1167–1169.

16. Metastatic carcinoma from the prostate occurring in the ureteropelvic junction. Report of a case. Jour. Urol., 1922, viii, 445–450. (With A. S. Giordano.)

17. Report of a case of duplication of the renal pelvis and ureter, with extravesical opening of one ureter resulting in hydronephrosis of the upper pelvis and hydro-ureter. Med. Clin. N. Amer., 1923, vii, 141–150.

18. Gradual emptying of the overdistended bladder. Jour. Am. Med. Assn., 1923, lxxxi, 821–823. (With G. S. Foulds.)

19. Tuberculosis of the genito-urinary tract. Minn. Med., 1924, vii, 146–150.

20. Preoperative care and treatment of a patient with complete urinary retention complicated by extensive destruction of renal function, the result of prostatic hypertrophy. Surg. Clin. N. Amer., 1924, iv, 379–386.

21. Certain aspects of focal infection commonly misunderstood. Med. Jour. and Rec., 1924, cxix, 333–338.

22. Cystograms: Their clinical application and possible misinterpretation. Surg., Gynec., and Obst., 1924, xxxviii, 546–549.
23. The treatment of pyelonephritis with indwelling ureteral catheters. A report of two cases. Jour. Urol., 1924, xi, 453–459.
24. Radium in the treatment of benign hypertrophy of the prostate. Jour. Urol., 1924, xii, 63–70.
25. Urinary reflux. Jour. Urol., 1924, xii, 341–346.
26. Modern methods and results of treating malignancy of the bladder. Jour. Am. Med. Assn., 1924, lxxxiii, 1139–1142.
27. Ureteral scissors. Jour. Am. Med. Assn., 1924, lxxxiii, 1331.
28. The elimination of foci of infection as a means of prolonging life. Med. Insurance, 1924, xxxix, No. 11.
29. A simple table for cystoscopy and roentgenography. Jour. Urol., 1925, xiii, 247–250. (With W. F. Braasch.)
30. Pyelonephritis treated with mercurochrome. Med. Clin. N. Amer., 1925, viii, 1103–1107.
31. Treatment of infections of the urinary tract. Journal-Lancet, 1925, xlv, 99–105.
32. Unusual dilatation of the urethra with valve formation. Jour. Urol., 1925, xiii, 551–553.
33. Ureteral stones. Surg. Clin. N. Amer., 1925, v, 813–827. (With A. J. Scholl.)
34. Radium and roentgen ray in the treatment of sarcoma of the prostate. Jour. Urol., 1925, xiv, 519–533.
35. Preparation of patients for prostatectomy. Surg., Gynec., and Obst., 1926, xlii, 182–186.
36. Clinical results with intravenous chemotherapy in urinary infections. Jour. Urol., 1926, xv, 341–349. (With W. F. Braasch.)
37. Pyelonephritis. Wisconsin Med. Jour., 1926. (In press.)
38. Carcinoma of the prostate: a clinical study of 1000 cases. Surg., Gynec., and Obst., 1926, xliii, 150–155.

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Bibliography.—1. Roentgenology of the male urethra; notes on the anatomy, physiology, and pathology. Surg., Gynec., and Obst., 1924, xxxviii, 403–406.
2. True bilateral hermaphrodism with periodic hematuria. Jour. Urol., 1924, xii, 153–158.
3. Noncalculous intermittent biliary obstruction following cholecystectomy. Ann. Surg., 1924, lxxix, 533–537. (With E. S. Judd.)
4. Postoperative stricture of the common bile duct. Ann. Surg., 1924, lxxx, 210–216. (With E. S. Judd.)
5. Internal biliary fistula. Ann. Surg., 1925, lxxxi, 305–312. (With E. S. Judd.)
6. Obstructive jaundice. Am. Jour. Med. Sc., 1925, clxix, 888–896. (With E. S. Judd.)
7. Observations on the histologic and pathologic anatomy of the hepatic, cystic, and common bile ducts. Ann. Surg., lxxxii, 584–597.
8. Benign stricture of the bile ducts. Arch. Surg., 1925, xi, 459–472. (With E. S. Judd.)
9. Intrahepatic cholelithiasis: Report of a case. Surg., Gynec., and Obst., 1926, xlii, 322–325. (With E. S. Judd.)

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Guy E. Burman

Bibliography.—1. The action of the so-called female remedies on the excised uterus of the guinea pig. Arch. Int. Med., 1916, xviii, 557–583. (With J. D. Pilcher and W. R. Delzell.)

2. The action of the various female remedies on the excised intestine of the rabbit. Arch. Int. Med., 1916, xviii, 752–757. (With W. R. Delzell and J. D. Pilcher.)

Burns, Arthur, B.A., M.D., was born October 25, 1896 in Cuero, Texas; attended the Southwestern University and the University of Texas, from which he received the degree of B.A. in 1918, and received the degree of M.D. in 1923 from Johns Hopkins Medical School, Baltimore; he was intern at the Bay View Hospital, Baltimore, from July 1, 1923 to July 1, 1924, when he entered The Mayo Foundation as a fellow in medicine. His services thus far have included general diagnosis, nine months; medical hospital service, six months, and neurology, three months. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the American Medical Association, Phi Delta Theta, and Phi Chi. He married Helen Reuss September 9, 1922. His address is Rochester, Minnesota.

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Bibliography.1. Aseptic end-to-end anastomosis of the intestine. Ann. Surg., 1925, lxxxi, 670–673.

2. Pernicious anemia; a treatment. Texas State Jour. Med., 1925, xxi, 26–28. (With C. F. Dixon.)

3. Pernicious anemia, following ileostomy. Jour. Am. Med. Assn., 1925, lxxxv, 17–20. (With C. F. Dixon and H. Z. Giffin.)

Burns, Robert E., B.S., M.D., was born May 6, 1895 in Grand Rapids, Wisconsin; received the degree of B.S. in 1917 from the University of Wisconsin; attended the University of Cincinnati in 1917–1918, and then the University of Pennsylvania, where he received the degree of M.D. in 1919; was intern at St. Mary's Hospital, Madison, Wisconsin, from 1919 to 1921, and at the Hospital for Ruptured and Crippled, New York City, in 1921–1922. He entered The Mayo Foundation April 1, 1922 as a fellow in orthopedics, and after nine months of service in orthopedics and three months in orthopedic surgery he left the Foundation to practice in Madison, Wisconsin. He is also an instructor in orthopedic surgery at the University of Wisconsin. He is a member of the Dane County Medical Society, the State Medical Society of Wisconsin, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Sigma Sigma, and Phi Beta Pi. His address is 543 State Street, Madison, Wisconsin.

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Busby, James L., M.D., was born December 25, 1890 in Millersport, Ohio; received the degree of M.D. from Ohio State University in 1913; was intern at St. Clair Hospital in Columbus, Ohio, in 1913 and 1914, and practiced in Shelby and in Columbus, Ohio, from 1914 to 1918, when he joined the Medical Corps, U. S. A. From April to October, 1920 he was assistant chief medical adviser in the Bureau of War Risk Insurance, and the following two years was chief of the section of medicine and surgery, hospital division of the United States Public Health Service. From September, 1922 to January 1, 1923 he held an executive position with the Kahler Corporation, and then entered The Mayo Foundation as a special student in medicine. His services have included pathologic anatomy, one year; general diagnosis, one year and six months, and neurology, six months. July 1, 1924 he was appointed first assistant in the Section on Pathologic Anatomy, Mayo Clinic, and January 1, 1925 was transferred to one of the sections on medicine. He became associate in one of the sections on medicine September 1, 1925. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the Southern Minnesota Medical Association, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Alpha Kappa Kappa. He married Louise Neiswander June 9, 1914. His address is Rochester, Minnesota.

James L. Busby

Busman, George J., B.S., M.D., M.S. in Dermatology, was born July 31, 1892 in Coopersville, Michigan; received the degree of B.S. in 1916, and of M.D. in 1918, from the University of Michigan, and of M.S. in Dermatology in 1922 from the University of Minnesota. He entered The Mayo Foundation July 1, 1918 as a fellow in dermatology; his services included dermatology and syphilology, four years, and serology, six months. These services overlapped. He left The Mayo Foundation July 1, 1922, and is now practicing in Pittsburgh, Pennsylvania. He is a member of the Pittsburgh Dermatological Society, the Allegheny County Medical Society, the Medical Society of the State of Pennsylvania, the American Medical Association, and the Association of the Resident and Ex-Resident Physicians of the Mayo Clinic. He married Helen I. Land June 25, 1921. His address is 637 Union Arcade, Pittsburgh, Pennsylvania.

George J. Busman

Bibliography.—1. Tubing as a cause of reaction to intravenous injection, especially of arsphenamin; preliminary report. Jour. Am. Med. Assn., 1920, lxxiv, 1013–1017. (With J. H. Stokes.)

2. Rubber tubing as a factor in reaction to the blood transfusion. Jour. Lab. and Clin. Med., 1920, v, 693–699.

3. A clinical study of Wassermann-fast syphilis, with special reference to prognosis and treatment. Am. Jour. Med. Sc., 1920, clx, 658–668. (With J. H. Stokes.)

4. Prevention of acute arsphenamin reaction by anti-anaphylaxis and atropin. Jour. Am. Med. Assn., 1921, lxxvi, 1302–1305.

5. Malignant endotheliomas with cutaneous involvement. A clinical and histopathologic study with a report of three cases. Arch. Dermat. and Syph., 1922, vi, 680–700.

6. Some important landmarks in late congenital and acquired syphilis. Atlantic Med. Jour., 1926, xxix, 210–214.

Busteed, Daniel F., M.D.C.M., was born November 27, 1889 in Montreal, Canada; received the degree of M.D.C.M. from McGill University, Montreal, in 1913; was intern in the Long Island College Hospital, Brooklyn, sixteen months during 1913 and 1914, and chief surgeon for the DuPont Powder Company, Hopewell, Virginia, from 1915 to 1919. He entered The Mayo Foundation as a fellow in surgery March 3, 1919; his services included pathologic anatomy, one month; general diagnosis, one year; orthopedics, three months, and surgery, six months. He left The Mayo Foundation January 1, 1921, and established a practice in Vancouver, B. C. He is a member of the Vancouver Medical Association and the British Columbia Medical Association. He married Gertrude Burland in 1916. His address is 714 Birks Building, Vancouver, British Columbia.

Daniel F. Busteed

Butler, Edward T., D.D.S., was born April 2, 1897 in Sullivan, Illinois; received the degree of D.D.S. from the University of Louisville, Kentucky, in 1919; was intern in the Louisville City Hospital from April 14 to June 16, 1919, and practiced denistry in Sullivan, Illinois, from August, 1919 to May, 1920. He entered The Mayo Foundation July 1, 1920 as a special student in dental surgery. He left The Mayo Foundation July 1, 1922 to become a member of the dental department of the Buffalo Clinic, and is now practicing in Buffalo, New York. He is a member of the Eastern Illinois Dental Society, Illinois Dental Society, Southern Minnesota Dental Society, Minnesota State Dental Association, Eighth District New York Dental Society, New York State Dental Society, and an associate member of the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Erva Enke August 21, 1922. His address is 438 Delaware Street, Buffalo, New York.

Edward T. Butler

Butler, Ethan F., B.A., M.D., F.A.C.S., was born January 4, 1884 in Yonkers, New York; received the degree of B.A. from Princeton University, Princeton, New Jersey, in 1906, and of M.D. from Johns Hopkins University, Baltimore, in 1910; was intern at the Labrador Medical Mission in 1910, and practiced at Washington, D. C., in 1911. He was intern at St. Mary's Hospital (Mayo Clinic), Rochester, Minnesota, from 1911 to 1912; assistant in surgery, Mayo Clinic, from 1912 to 1913, and assistant in medicine from 1913 to 1914. He left the Mayo Clinic November 2, 1914, and practiced medicine at Yonkers, New York, from 1916 to 1917. He became a member of the Medical Reserve Corps, U. S. A., in October, 1913; and during the war was Director Serbian Unit 2, American Red Cross European Relief Detachment, from 1914 to 1915; First Lieutenant, Medical Reserve Corps, from 1915 to 1917; Ward Surgeon, War Demonstration Hospital, Rockefeller Institute (Captain, Medical Reserve Corps), and Instructor in Military Surgery, Bellevue Hospital, from 1917 to 1918 (Captain and Major, Medical Reserve Corps); Chief, Empyema Section, Walter Reed Hospital, from 1919 to 1920 (Major, Medical Corps); Chief, Surgical Service, U. S. P. H. S. Hospital 38 (Surgeon U. S. P. H. S. Reserve), in 1920, and is at present Major, Medical Reserve Corps, but not in active service. He practiced surgery in New York City from 1920 to 1922, and is now associate in surgery at the Robert Packer Hospital, Sayre, Pennsylvania. He is a member of the Yonkers Academy of Medicine (New York), the Yonkers Practitioners' Club (New York), the West Chester County Medical Society, New York Medical Society, the Medical Society of the State of New York, the New York Society for Thoracic Surgery, the New York and New England Association of Railway Surgeons, the Bradford County Medical Society, the Pennsylvania State Medical Association, the Association of Military Surgeons, the American College of Surgeons, the American Association for Thoracic Surgery, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Margaret M. Renshaw December 18, 1915. His address is the Robert Packer Hospital, Sayre, Pennsylvania.

Ethan F. Butler

Bibliography.—1. Ernest Pendleton Magruder: An appreciation. Washington Med. Ann., 1916, xv, 49–57; Also: Johns Hopkins Alumni Mag., 1917–1918, vi, 42–49.

2. Experiences in Serbia during the War, with special reference to the typhus epidemic of 1915. New York State Jour. Med., 1917, xvii, 139–144; Also: Med. Rec., 1916, xc, 918.
3. Résumé of war service in Belgrade, Serbia. Am. Med., 1917, xii, 352–358.
4. The application of the teachings of war surgery to civil hospital conditions. Surg., Gynec., and Obst., 1918, xxvii, 377–385; Also: Tr. Am. Surg. Assn., 1918, xxxvi, 26–44. (With J. A. Hartwell.)
5. Recommendations regarding Balkan frame. Mil. Surgeon, 1919, xliv, 217–220. (With T. F. X. Sullivan.)
6. Stab wound of heart, suture of heart muscle, with recovery. Jour. Am. Med. Assn., 1919, lxxii, 1283–1284.
7. Hypertrophic pulmonary osteoarthropathy following lung abscess. Jour. Am. Med. Assn., 1920, lxxv, 233–236.
8. Acute empyema. Mil. Surgeon, 1921, xlviii, 412–423. (With A. D. Haverstock.)
9. The surgical sterilization of wounds. Am. Med., 1921, xvi, 295–303.
10. Chronic empyema. Mil. Surgeon, 1921, xlix, 544–558; Also: Tr. Assn. Res. and Ex-Res. Phys. Mayo Clinic, 1922, ii, 89–116. (With A. D. Haverstock.)
11. Obviation of chronicity in acute empyema. Tr. New York and New England Assn. Railway Surg., 1922.
12. "Influence" of the World War on the development of civil medical practice. Mil. Surgeon, 1922, li, 494–507.
13. Obviation of chronicity in cases of acute postpneumonic empyema. Am. Jour. Surg., 1923, xxxvii, 176–177.
14. Chondrosarcoma of the eighth rib: report of a case. Tr. Assn. Res. and Ex-Res. Phys. Mayo Clinic, 1925, vi, 151–158.

Butsch, John L., Ph.G., Ph.C., B.S., M.D., M.S., Ph.D. in Surgery, F.A.C.S., was born December 6, 1876 at Lynnville, Indiana; attended the Indiana State Normal School, Muncie, Indiana; received the degree of Ph.G. and of Ph.C. in 1889, of B.S. in Pharmacy in 1906, and of M.S. in 1915, from Purdue University, Lafayette, Indiana, of M.D. from Johns Hopkins University, Baltimore, in 1912, and of Ph.D. in Surgery from the University of Minnesota in 1919. He was head of the Department of Pharmacology at the University of Buffalo from 1912 to 1916, assistant in surgery at the University of Buffalo and clinical assistant in surgery, Buffalo General Hospital, from 1914 to 1916. He entered The Mayo Foundation in July, 1916 as a fellow in surgery; his services included general diagnosis, nine months; surgery, two years and eleven months; urology, three months; roentgenology, three months, and postoperative treatment, six months. He left the Foundation October 1, 1920, and was director of the surgical division of the Buffalo Clinic until April, 1924, when he retired from active

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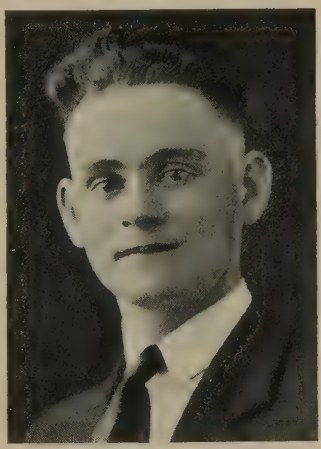
practice. He was a member of the Buffalo Academy of Medicine, the Erie County Medical Society, Medical Society of the State of New York, the American Medical Association, the American Association for the Advancement of Science, the American College of Surgeons, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Margaret E. Carpenter October 18, 1905. He died September 6, 1925 in Brazil, Indiana.

Bibliography.—1. Ulcers of the gastro-intestinal tract with special reference to gastro-jejunal ulcers. Thesis. Papers from The Mayo Foundation and the Medical School of the University of Minnesota, Philadelphia, Saunders, 1915–1920, i, 57–84.
2. The effect of the digestive period and other factors in reaction after blood transfusions. New York Med. Jour., 1921, cxiii, 513–517. (With Winifred Ashby.)
3. Devices to eliminate certain objectionable factors in analysis of gastric content. Jour. Lab. and Clin. Med., 1922, vii, 431–432. (With C. M. O'Brien.)

Calene, John L., B.A., M.D., was born September 24, 1895 in Sylvan Grove, Kansas; received the degree of B.A. from the University of Kansas in 1918, and of M.D. from Rush Medical College, University of Chicago, in 1921; and was intern in the department of obstetrics and gynecology, Presbyterian Hospital, Chicago, from July, 1920 to July, 1921. He entered The Mayo Foundation January 1, 1922, as a fellow in medicine; his services included pathologic anatomy, six months, and general diagnosis, six months. He left The Mayo Foundation January 1, 1923, and is now connected with the Hatcher Hospital, Wellington, Kansas. He married Dorothy Bordman in 1922. His address is Hatcher Hospital, Wellington, Kansas.



John L. Calene

Bibliography.—1. Nephritis, with particular reference to diagnosis. Jour. Kansas Med. Soc., 1924, xxiv, 323–328.

Camp, John D., B.S., Ch.B., M.D., was born March 9, 1898 in Pittsfield, Massachusetts; attended the University of Buffalo, Buffalo, New York, in 1916–1917; received the degrees of B.S. in 1920, Ch.B. in 1921, and M.D. in 1922 from Boston University, Boston, Massachusetts; was intern at the Massachusetts Homeopathic Hospital in Boston from 1920 to 1922, and entered The Mayo Foundation July 1, 1922 as a fellow in roentgenology. His services included pathologic anatomy, six months; roentgen therapy, three months, and roentgenology, fourteen months. He left The Mayo Foundation June 19, 1924 to take the position of assistant roentgenologist at the Massachusetts General Hospital in Boston, and is also consulting roentgenologist to the Westerly Hospital, Westerly, Rhode Island. He is a member of the Norfolk County Medical Society, the Massachusetts Medical Society, the American Medical Association, the New England Roentgen-ray Society, the Radiological Society of North America, Lambda, and Phi Chi. His address is Massachusetts General Hospital, Boston, Massachusetts.

John D. Camp

Bibliography.—1. The normal and pathologic anatomy of the sella turcica as revealed at necropsy. Radiology, 1923, i, 65–73.

2. Roentgenologic diagnosis of cholecystic disease. Radiology, 1924, ii, 80–89. (With R. D. Carman and W. C. MacCarty.)

3. Myoma of the stomach and of the duodenum. Radiology, 1924, ii, 262–264.

4. Osteoma of the sphenoid bone and dural endothelioma. Am. Jour. Roentgenol., 1924, xi, 523–524.

5. New type of *x*-ray film clip. Radiology, 1924, iii, 163.

6. II. Normal and pathologic anatomy of sella turcica as revealed by roentgenograms. Am. Jour. Roentgenol., 1924, xii, 143–156.

7. Sarcoma complicating osteitis deformans. A report of two cases. Radiology, 1925, v, 495–499.

8. The sella turcica; roentgenographic changes. Jour. Am. Med. Assn., 1926, lxxxvi, 164–168.

9. Recurring mucous cyst of the stomach. Radiology, 1926, vi, 257–259.

Carber, Frank H., M.D., was born June 5, 1885 in Sussex, New Jersey; attended Princeton University, New Jersey, from 1903 to 1906, and the College of Physicians and Surgeons, Columbia University, New York City, from 1908 to 1912, receiving the degree of M.D. in 1912, and was intern in the New York Postgraduate Hospital two years, from 1912 to 1914. He entered The Mayo Foundation February 1, 1915 as a fellow in medicine; his services included general diagnosis, eleven months; neurology, five months; urology, eight months, and roentgenology, three months. He left The Mayo Foundation May 1, 1917. During the war he was First Lieutenant, Medical Corps, in orthopedic surgery, at United States General Hospital 9, Lakewood, New Jersey. He was chief examiner for the Life Extension Institute from May, 1917 to April, 1920, and since then has been medical inspector for the Mutual Life Insurance Company of New York City. He is a member of the New York Postgraduate Alumni Association, the New York Academy of Medicine, the New York County Medical Society, the Medical Society of the State of New York, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Sarah E. Reynolds February 28, 1925. His address is 34 Nassau Street, New York City.

Frank H. Carber

Carman, Russell D., M.D., F.A.C.P., F.A.C.R., was born March 18, 1875 in Iroquois, Ontario; received the degree of M.D. from the Marion-Sims College of Medicine, St. Louis, Missouri, in 1901; did graduate work in Johns Hopkins Medical School from 1901 to 1902, and practiced medicine in St. Louis from 1902 to 1912, specializing in roentgenology. He came to the Mayo Clinic January 1, 1913 as head of the Section on Roentgenology. He was professor of roentgenology, The Mayo Foundation, Graduate School, University of Minnesota. During the war he was a member of the Medical Examining Board in Rochester. He was a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the

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American Medical Association, the American College of Physicians, the American College of Radiologists, the American Roentgen-ray Society, the Radiological Society of North America (President 1922–1923), the London Roentgen Society, the Nordisk Förening för Medicinsk Radiologi, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Alpha Kappa Kappa, and Sigma Xi. He married Sadie L. Butler November 14, 1904. He died in Rochester, Minnesota, June 18, 1926.

Bibliography.—1. Demonstration of skiagraphs of urinary calculi with history of cases. St. Louis Med. Rev., 1907, lv, 623–625.
2. The roentgen ray in the diagnosis of renal and ureteral calculi. Interstate Med. Jour., 1908, xv, 415–430; also Jour. Mo. Med. Assn., 1907–8, iv, 649–665.
3. The roentgen ray as an aid to the diagnosis of tuberculosis of the lungs. with demonstration of skiagrams and new orthodiascope. Jour. Mo. Med. Assn., 1908–9, v, 209–217. (With W. Engelbach.)
4. The technic of localizing foreign bodies in the eye and orbit by the *x*-rays. St. Louis Med. Rev., 1909, lviii, 80–86; also Week. Bull. St. Louis Med. Soc., 1909, iii, 246.
5. Anatomic, pathologic, and clinical studies of lesions involving the appendix, and right ureter; with special reference to diagnosis and operative treatment. Jour. Am. Med. Assn., 1910, liv, 1491–1497 (with J. Y. Brown and W. Engelbach); also Tr. South. Surg., and Gynec., Assn., 1909, xxii, 248–267.
6. Medical roentgenology as a specialty. Jour. Mo. Med. Assn., 1910–1911, vii, 121–123.
7. X-ray localization of foreign bodies. Jour. Mo. Med. Assn., 1910–1911, vii, 214–217.
8. The roentgen rays in the diagnosis of tabetic osteoarthropathies; report of eight cases with skiagrams. Jour. Mo. Med. Assn., 1910–1911, vii, 385–394.
9. The diagraphoscope. St. Louis Med. Rev., 1911, v, 198–200.
10. X-ray studies of serofibrinous pleuritis. Am. Jour. Med. Sc., 1911, cxliii, 838–851.
11. Skiagraphy in urologic diagnosis. III. Med. Jour., 1912, xxi, 131–139.
12. The *x*-ray diagnosis of thoracic aneurysm. Jour. Mo. Med. Assn., 1912–1913, ix, 389–395.
13. The technic of roentgen-ray examination of the gastro-intestinal tract, and the interpretation of screen and plate findings. Jour. Am. Med. Assn., 1913, lxi, 321–327.
14. Cardiospasm with sacculation of the esophagus, with special reference to the persistence of the sac. Jour. Am. Med. Assn., 1912, lix, 1278–1282. (With J. S. Myer.)
15. The *x*-ray in the diagnosis of gastric ulcer and its sequelæ. Surg., Gynec., and Obst., 1913, xvii, 1–25. (With R. W. Mills.)
16. The roentgen ray as an aid in the diagnosis of gastric cancer and ulcer. Jour. Ind. Med. Assn., 1913, vi, 485–505.
17. Radiologic signs of duodenal ulcer, with special reference to gastric hyperperistalsis. Jour. Am. Med. Assn., 1914, lxii, 980–984.
18. The roentgen diagnosis of gastric ulcer. Am. Jour. Roentgenol., 1913–1914, i, 233–251.
19. Some essential points in the radiologic diagnosis of gastric cancer and gastric ulcer. St. Paul Med. Jour., 1914, xvi, 483–496.
20. Some elementary features of the *x*-ray diagnosis of gastric carcinoma, gastric ulcer, and duodenal ulcer. Canad. Med. Assn. Jour., 1915, v, 16–25.
21. Multiple congenital osteochondromata. Ann. Surg., 1915, lxi, 142–148. (With A. O. Fisher.)
22. The roentgenologic findings in three cases of diverticulitis of the large bowel. Am. Surg., 1915, lxi, 343–348.
23. Report of a case of diverticulitis of the sigmoid, with the roentgenologic findings. Am. Jour. Roentgenol., 1914–1915, ii, 652.

24. Gastrojejunal ulcers; their roentgenologic and surgical aspects. Jour. Am. Med. Assn., 1915, lxv, 227–232. (With D. C. Balfour.)
25. Roentgen signs of gastrojejunal ulcer; some suggestions as to technic of examination; report of two cases. Am. Jour. Roentgenol., 1915, ii, 749–754.
26. The roentgenologic determination of gastric motility, with a comparsion of the results obtained in a series of cases examined both by the roentgen ray and the test meal. Arch. Int. Med., 1915, xvi, 406–428. (With A. Miller.)
27. The diagnosis of gastric ulcer by the roentgen ray. Jour. Kansas Med. Soc., 1915, xv, 267–272.
28. Roentgen diagnosis of gastric cancer; report of twelve cases. Am. Jour. Med. Sc., 1915, cl, 625–651.
29. Roentgen observation of the gall-bladder and hepatic ducts after perforation into the duodenum. Jour. Am. Med. Assn., 1915, lxv, 1812.
30. Spasms of the stomach and duodenum from a roentgenologic point of view. Jour. Am. Med. Assn., 1916, lxvi, 1283–1288.
31. Radiographic diagnosis of metastatic pulmonary malignancy; a report of seventy-one positive cases. Am. Jour. Roentgenol., 1916, iii, 126–131. (With A. B. Moore.)
32. The roentgenologic diagnosis of duodenal ulcer. Am. Jour. Roentgenol., 1916, iii, 252–256.
33. A case of associated gastric and duodenal ulcer. Am. Jour. Roentgenol., 1916, iii, 369.
34. Broncho-esophageal fistula. Am. Jour. Roentgenol., 1916, iii, 370.
35. Syphilis of the stomach in its roentgenologic aspects. Am. Jour. Syph., 1917, i, 111–116.
36. Chronic colitis and its roentgenologic findings. Jour. Lab. and Clin. Med., 1917, ii, 328–341. (With F. B. McMahon.)
37. The roentgen diagnosis of diseases of the alimentary canal. Philadelphia, Saunders, ed. 1, 1917, 558 pp. (with A. Miller.); ed. 2, 1920, 676 pp.
38. Roentgen diagnosis of concurrent gastric and duodenal ulcer. Am. Jour. Roentgenol., 1917, iv, 552–554.
39. A review of the roentgenology of syphilis. Am. Jour. Syph., 1918, ii, 297–343.
40. The roentgenologic diagnosis of primary carcinoma of the lung. Am. Jour. Med. Sc., 1918, clv, 34–47. (With F. B. McMahon.)
41. Roentgenologic aspects of hour-glass stomach. Surg., Gynec., and Obst., 1918, xxvii, 426–437.
42. Operability of cancer of the stomach as determined by the *x*-ray. Jour. Am. Med. Assn., 1919, lxxiii, 1513–1518.
43. The roentgen diagnosis and localization of peptic ulcer. California State Jour. Med., 1920, xviii, 377.
44. Roentgenology of tuberculous entercolitis. Jour. Am. Med. Assn., 1920, lxxiv, 1371–1373.
45. The roentgen diagnosis of gastric ulcer. Journal-Lancet, 1919, xxxix, 402–406.
46. Renal fluoroscopy at the operating table. Jour. Am. Med. Assn., 1919, lxxiii, 1751–1752. (With W. F. Braasch.)
47. Roentgenology in the Mayo Clinic. Am. Jour. Roentgenol., 1920, vii, 577–579.
48. Roentgenology of tuberculous enterocolitis. Radiology, 1920, i, 246–271.
49. Two contrasting cases. (1) Adenocarcinoma of the stomach revealed by roentgenograms, but not palpable on exploration by the surgeon; (2) gastric ulcer not shown by the roentgen ray, but found at operation. Am. Jour. Roentgenol., 1921, viii, 480–481.
50. The making and filing of records in the section on roentgenology in the Mayo Clinic. Am. Jour. Roentgenol., 1921, viii, 372–382.
51. The roentgenological aspect of pulmonary metastasis. Radiology, 1921, ii, 1–10.
52. The roentgenologic aspects of osteitis deformans, Paget's disease, with reports of fifteen cases. Jour. Radiol., 1921, ii, 7–28. (With W. M. Carrick.)

53. A new roentgen-ray sign of ulcerating gastric cancer. Jour. Am. Med. Assn., 1921, lxxvii, 990–992.
54. Hemangioma of the duodenum. Am. Jour. Roentgenol., 1921, viii, 481–482.
55. Aneurysm of the aorta and abscess of the tracheobronchial lymph glands. Am. Jour. Roentgenol., 1921, viii, 269–271. (With C. G. Sutherland.)
56. Primary cancer of the lung from the roentgenologic viewpoint. Med. Clin. N. Amer., 1921, v, 307–354.
57. Benign and malignant gastric ulcer from a roentgenologic viewpoint. Am. Jour. Roentgenol., 1921, viii, 695–704.
58. The roentgenologic diagnosis of gastric cancer. Southern Med. Jour., 1922, xv, 20–27.
59. Errors in the roentgenologic diagnosis of duodenal ulcer. Radiology, 1922, iii, 163–169.
60. Roentgenologic aspects of gastric ulcer. Ann. Clin. Med., 1922, i, 51–52.
61. Limitations of roentgenologic diagnosis. New York State Jour. Med., 1922, xxii, 302–305.
62. Roentgenologic signs of cancer of the colon. Radiology, 1923, iv, 147–151.
63. Technical aids in the roentgenologic demonstration of lesions high in the stomach and on the posterior wall. Tr. Am. Gastro-Enterol. Assn., 1923, xxvi, 15–28.
64. The future of radiology. (Editorial.) Radiology, 1924, ii, 41–45.
65. Roentgenologic diagnosis of cholecystic disease. Radiology, 1924, ii, 80–89. (With W. C. MacCarty and J. D. Camp.)
66. Renal fluoroscopy at the operating table. Radiology, 1924, ii, 222–226. (With W. F. Braasch.)
67. The roentgenologic diagnosis of diaphragmatic hernia, with a report of seventeen cases. Radiology, 1924, iii, 26–45. (With S. Fineman.)
68. Roentgenologic evidence of spinal-cord tumors: Report of three cases. Radiology, 1924, iii, 185–188. (With K. S. Davis.)
69. Roentgenologic diagnosis of cholecystic disease with the aid of the sodium salt of tetrabromphenolphthalein. Am. Jour. Roentgenol., 1924, xii, 403–413. (With V. S. Counseller.)
70. Radiologic diagnosis of cholecystic disease by the Graham method. Tr. Sect. Gastro-Enterol. and Proctol., Am. Med. Assn., 1924, 77–84. (With V. S. Counseller.)
71. Occupational hazards of the radiologist, with special reference to changes in the blood. Radiology, 1924, iii, 408–417. (With A. Miller.)
72. Technical aids in the roentgenologic demonstration of lesions high in the stomach and on the posterior wall. Radiology, 1925, iv, 33–39.
73. The pyelographic and roentgenologic diagnosis of renal tumors. Radiology, 1925, iv, 445–452. (With W. F. Braasch.)
74. Progress in the roentgenologic examination of the gall-bladder. (Editorial.) Am. Jour. Roentgenol., 1925, xiii, 165–167.
75. The roentgenologic diagnosis of disease of the gall-bladder. Radiology, 1925, v, 101–103.
76. Metastasis to the bones from carcinoma of the breast: A roentgenologic study. Radiology, 1925, v, 486–489. (With J. D. Garvin and H. W. Meyerding.)
77. Cholecystography in its application to the diagnosis of cholecystic disease. Lancet, 1925, ccix, 67–69; also Minn. Med., 1925, viii, 707–712.
78. The roentgenologic diagnosis of peptic ulcer. Jour. Am. Med. Assn., 1925, lxxxv, 1381–1382; also Texas State Jour. Med., 1926, xxi, 599–606.
79. Further observations on the roentgenologic diagnosis of gastrojejunal ulcer. Memorial volume, Dr. G. Forssell's fiftieth anniversary. Acta radiol., 1926, vi. (In press.)

Carrick, Wellington M., M.B., was born August 16, 1884 in Chatham, Ontario; received the degree of M.B. from the University of Toronto in 1905; was intern in the Hamilton General Hospital eighteen months in 1905 and 1906, in the Lying-in Hospital, New York, six months in 1907, and in the Riverside, Willard Parker, and Miniturn Hospitals eighteen months in 1907 and 1908; practiced medicine at Hamilton, Ontario, from 1908 to 1914. He was Major in the Canadian Army Medical Corps from 1914 to 1919, serving as Assistant Director of the Medical Service, Field Ambulance 16, in Siberia, and as Deputy Assistant Director of the Medical Service at Base Hospital, Military District 5. He entered The Mayo Foundation January 1, 1920 for special work in roentgenology. He left The Mayo Foundation July 15, 1922 to become roentgenologist at the McGregor-Mowbray Clinic, Hamilton, Ontario. He is a member of the Hamilton Medical Society, the Ontario Medical Society, the Canadian Medical Society, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. His address is 250 Main Street East, Hamilton, Ontario.

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Bibliography.—1. The roentgenologic aspects of osteitis deformans, Paget's disease, with reports of fifteen cases. Radiology, 1921, ii, 7–28. (With R. D. Carman.)
2. Two cases of interest: Duodenal ulcer in a child ten years old, diagnosed radiologically; fracture and dislocation of the scaphoid. Brit. Jour. Radiol., 1924, xxix, 411–412.
3. Gastro-intestinal *x*-ray reports. Can. Med. Assn. Jour., 1925, xv, 45.

Carroll, William C., B.S., M.D., F.A.C.S., was born March 21, 1889 at Lake City, Minnesota; attended St. Thomas College, St. Paul, from 1901 to 1906; received the degree of B.S. in 1910, and of M.D. in 1912, from the University of Minnesota; was intern at the City and County Hospital, St. Paul, from June to September, 1911, and from June, 1912 to June, 1913. He entered the Mayo Clinic July 1, 1913; his services included surgery, one year; urology, four months, and surgical pathology and roentgenology, eight months. He left the Mayo Clinic July 1, 1915 to join the surgical staff of the St. Paul Clinic. He is also attending surgeon at St. Joseph's Hospital, St. Paul. He is a member of the Ramsey County Medical Society, the Minnesota State Medical Association, the Minnesota State Pathological Society, the American College of Surgeons, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Laurette R. Walsh in June, 1918. His address is 1113–1122 Lowry Building, St. Paul, Minnesota.

William C. Carroll

Bibliography.—1. Hair ball in the stomach; other foreign bodies in the gastro-intestinal tract. Journal-Lancet, 1915, xxxv, 25–27.

2. Intestinal polyposis. Surg., Gynec., and Obst., 1915, xx, 412–414.

3. Complications following surgery of the gallbladder and bile ducts. Minn. Med., 1922, v, 307–311.

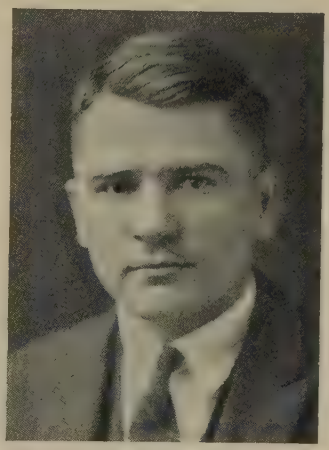
Cathcart, Edward P., B.A., M.D., M.S. in Urology, was born June 20, 1895 in Holland, Michigan; received the degree of B.A. from Hope College, Holland, Michigan, in 1917, of M.D. from the University of Michigan, Ann Arbor, in 1921, and of M.S. in Urology from the University of Minnesota in 1926. He entered The Mayo Foundation July 1, 1921 as a fellow in dermatology, and transferred his major to urology August 1, 1923, when he returned from a leave of absence of one year, during which time he was an intern at St. Francis Hospital in Pittsburgh. His services included dermatology and syphilology, seven months; medical hospital residence, six months; general diagnosis, five months; urology, eighteen months, and operative

Edward P. Cathcart

surgery, six months. He left the Clinic June 1, 1926 and is now senior instructor in Urology in the Medical School of the University of Michigan. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Nu Sigma Nu. His address is University Hospital, Ann Arbor, Michigan.

Bibliography.—1. An improved alimentary glucose tolerance test. Jour. Metabolic Res., 1922, i, 549–560. (With Carol Beeler, A. W. Bryan, and R. Fitz.)
2. Contributory factors in postarsphenamin dermatitis: with special reference to the influence of focal and intercurrent infection. Arch. Dermat. and Syph., 1923, vii, 14–49. (With John H. Stokes.)

Caylor, Harold D., B.S., M.D., was born August 19, 1894 in Nottingham, Indiana; attended the University of Indiana, Bloomington, Indiana, from 1912 to 1914; received the degree of B.S. in 1916 from the University of Chicago, and the degree of M.D. in 1918 from Rush Medical College, University of Chicago; was intern at the Presbyterian Hospital in Chicago for one month in 1918, but had to leave on account of illness; finished his internship at the Evanston Hospital in 1919 and 1920, and came to The Mayo Foundation June 25, 1921 as a special student in pathology. He left the Foundation April 21, 1922, and practiced with his father in Bluffton, Indiana, until December 1, 1923, when he returned to Rochester as first assistant in the Section on Surgical Pathology, Mayo Clinic. He was appointed associate in this section January 1, 1926. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, Delta Upsilon, Phi Chi, and Sigma Xi. He married Ella L. Cary November 11, 1919. His address is Rochester, Minnesota.



Harold D. Caylor

Bibliography.—1. Patent ductus. arteriosus, and saccular aneurysm of the aorta. Tr. Chicago Path. Soc., 1917–1918, x, 296–299.
2. Quantitative bacteriology of tonsils. Jour. Am. Med. Assn., 1922, lxxviii, 570–571. (With G. F. Dick.)
3. Metaplasia in ovarian dermoids and cystadenomas. Ann. Surg., 1922, lxxvi, 238–245. (With W. C. MacCarty.)
4. A histological study of the effect of ligation of the thyroid vessels in exophthalmic goiter. Surg., Gynec., and Obst., 1923, xxxvi, 75–80. (With A. S. Giordano.)
5. Repair of dural and brain defects by free fat and facial transplants. Jour. Am. Med. Assn., 1924, lxxxii, 1337–1342. (With A. E. Halstead.)
6. Sarcoma associated with ovarian fibroma. Ann. Surg., 1925, lxxxi, 674–678.

7. Epitheliomas in sebaceous cysts. Ann. Surg., 1925, lxxxii, 164–176.
8. The healing of the gastric ulcer of man. Ann. Surg., 1926, lxxxiii, 350–356.

Chambers, E. Francis S., M.D., was born December 14, 1885 in Philadelphia; received the degree of M.D. from the University of Pennsylvania in 1907; was intern at the Presbyterian Hospital, Philadelphia, eighteen months during 1907 and 1908, and at the University of Pennsylvania Hospital ten months during 1908 and 1909; practiced in Easton, Pennsylvania, from 1910 to 1917, when he joined the orthopedic section of the Medical Corps, A. E. F., and treated fractures at various base hospitals in France for thirteen months. After his discharge from the army he became an assistant to Sir Robert Jones at Baschurch, England. He was appointed first assistant in the Section on Orthopedic Surgery, Mayo Clinic, February 1, 1921, remaining until October 4, 1922, when he became orthopedic surgeon on the staffs of the Polyclinic and Medico-Chirurgical Hospitals, Philadelphia, and consulting orthopedic surgeon of the Mercer Hospital, Trenton, New Jersey, and of the Burlington County Hospital, Mt. Holly, New Jersey. He left Trenton, New Jersey, in August, 1925, and is practicing in Philadelphia. He is a member of the Philadelphia County Medical Society, the Medical Society of the State of Pennsylvania, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Mary K. Schley June 23, 1910. His address is 262 South Twenty-first Street, Philadelphia, Pennsylvania.

E. Francis S. Chambers

Chambers, Stanley O., M.D., was born April 4, 1897 in Detroit, Michigan; attended the Detroit Junior College and the University of Michigan where he received the degree of M.D. in 1923; was intern at the City of Detroit Receiving Hospital from July 1, 1923 to July 1, 1924, when he entered The Mayo Foundation as a fellow in dermatology and syphilology. After one year of service in the Section on Dermatology and Syphilology he left The Mayo Foundation, and is now instructor in the Department of Dermatology at the University of Pennsylvania Medical School. He is a member of Nu Sigma Nu. He married Ada B. Nutten June 10, 1924. His address is University of Pennsylvania Medical School, Philadelphia, Pennsylvania.

Stanley O. Chambers

Bibliography.—1. Syphilis of the large and small bowel. Am. Jour. Syph., 1926. (In press.)

Chaney, Ralph H., B.A., M.A., M.D., was born December 4, 1886 in Northfield, Minnesota; attended Carleton College, Northfield, from 1905 to 1908; received the degree of B.A. in 1909, and of M.A. in 1913, from Oberlin College, Oberlin, Ohio, and of M.D. in 1914 from the University of Pennsylvania; was intern at Bellevue Hospital, New York City, from June 1 to October 10, 1913, again from July 1, 1914 to April 1, 1915, and in the Kings County Hospital, Brooklyn, New York, from April, 1915 to April, 1917. He was commissioned First Lieutenant in the Medical Corps, U. S. A., in July, 1917, stationed at Fort Benjamin Harrison until December, 1917, and served overseas as Assistant Adjutant, Summary Court, Registrar, Assistant Surgeon, and Surgeon, A. E. F., and in other capacities until September, 1919, when he was discharged with the rank of Major. He was recommissioned as Major in December, 1919. He entered The Mayo Foundation October 1, 1919 as a fellow in surgery; his services included surgical pathology, six months; general diagnosis, one year; postoperative care,

Ralph H. Chaney

six months (three months part time); roentgenology, three months, and surgery, nine months. He left The Mayo Foundation July 1, 1922 to become attending surgeon at the University Hospital, Augusta, Georgia, and professor of surgery, University of Georgia. He is a member of the Richmond County Medical Society, the Medical Association of Georgia, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Alma G. Effert August 3, 1917. His address is 701 Gary Street, Augusta, Georgia.

Bibliography.—1. Carcinoma of the pancreas in the third and eighth decades. Jour Med. Assn., Georgia, 1924, xiii, 433–436. (With C. D. Ward.)

Chaney, William C., M.D., M.S. in Medicine, was born October 12, 1889 in Dunkirk, Maryland; took pre-medical courses at the University of Pennsylvania from 1911 to 1913, received the degree of M.D. from that University in 1917, and of M.S. in Medicine from the University of Minnesota in 1922; was intern at the University of Pennsylvania Hospital from June, 1917 to June, 1918, and served with the Medical Corps, U. S. A., on active duty from June, 1918 to August 15, 1919. He entered The Mayo Foundation as a fellow in medicine September 1, 1919; his services included general diagnosis, forty months; dermatology, three months; neurology, three months, and general pathology (part time) during the entire period. September 1, 1922 he was appointed first assistant in one of the sections on medicine in the Mayo Clinic, and associate October 1, 1923. He left the Mayo Clinic April 1, 1924, and is now at the Polyclinic in Memphis. He is a member of the Association of Resident and Ex-Resident Physicians of the Mayo Clinic and Sigma Xi. He married Leila R. Wade June 3, 1926. His address is Polyclinic, 20 South Dunlap Street, Memphis, Tennessee.

William C. Chaney

Bibliography.—1. The treatment of fifty-one selected cases of influenza in the epidemic of 1920. Minn. Med., 1920, iii, 436–439.

2. The pathology of the spleen. Ann. Clin. Med., 1922, i, 146–150.

3. Splenic anemia: a clinical and pathologic study of sixty-nine cases. Am. Jour. Med. Sc., 1923, clxv, 856–875.

4. Tendon reflexes in myxedema; a valuable aid in diagnosis. Jour. Am. Med. Assn., 1924, lxxxii, 2013–2016.

Chase, E. Frank, M.D., was born January 24, 1878 in Greeley, Iowa; received the degree of M.D. from the University of Minnesota in 1905; practiced medicine in Adams, Minnesota, from 1905 to 1906; was house physician in the Chicago Eye, Ear, Nose, and Throat Hospital from 1907 to 1908, and practiced as eye, ear, nose, and throat specialist in North Yakima, Washington, from 1908 to 1915. He came to the Mayo Clinic May 14, 1915 as first assistant in the Section on Laryngology and Rhinology. He resigned July 1, 1917 to practice otolaryngology in Seattle. He is a member of the American Medical Association and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Amy Kennedy July 24, 1907. His address is 1006–1008 Cobb Building, Seattle, Washington.

E. Frank Chase

Bibliography.—1. Phlegmonous inflammation of the lids. Ophthalmology, 1910, vi, 403–410. (With N. H. Goodenow.)
2. The technic of tonsillectomy. Jour. Iowa State Med. Soc., 1916, vi, 429–430.
3. Hemostasis in tonsillar surgery. Northwest Med., 1918, xvii, 173.
4. Pharyngeal stenosis. Tr. Pacific Coast Oto-Ophthal. Soc., 1922.
5. Exostosis on body of the axis causing death by bulbar paralysis. Northwest Med., 1924, xxiii, 560–561.
6. Management of maxillary sinus infection. Dentogram, March, 1925.

Clark, Charles M., B.S., M.D., was born April 22, 1890 in Greenville, Tennessee; received the degree of B.S. from Emory and Henry College, Emory, Virginia, in 1908, and of M.D. from the Medical College of Virginia, Richmond, in 1913; was intern in the Pocahontas Hospital six months during 1913, and practiced medicine at Hampden, Sydney, Virginia, from 1914 to 1917. He entered The Mayo Foundation August 1, 1917 as a fellow in otolaryngology; his services included ophthalmology, six months, and otolaryngology, twenty-one months. From October 9 to December 24, 1919 he served as First Lieutenant, Medical Corps, A. E. F., stationed at Camp Greenleaf, Georgia. He left The Mayo Foundation January 1, 1920, to practice in Akron, Ohio. He is a member

Charles M. Clark

of the Ohio State Medical Association and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Effie Roberts in 1913. His address is 303 Ohio Building, Akron, Ohio.

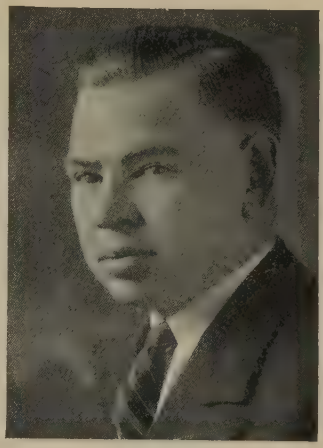
Bibliography.—1. Angiomas of the larynx; report of three cases. Ann. Otol., Rhinol., and Laryngol., 1919, xxxviii, 1025–1050. (With G. B. New.)
2. An unusual malignant tumor of the pharynx. Laryngoscope, 1919, xxix, 579.
3. Hare-lip and cleft palate. Ohio State Med. Jour., 1922, xviii, 417–423.

Cobb, Donnell B., B.S., M.D., M.S. in Surgery, was born July 8, 1898 in Goldsboro, North Carolina; attended the Virginia Military Institute, Lexington, Virginia, in 1914 and 1915; received the degree of B.S. in 1919 from the University of North Carolina; of M.D. in 1921 from the University of Pennsylvania, and of M.S. in Surgery in 1925 from the University of Minnesota; was intern at the Robert Packer Hospital, Sayre, Pennsylvania, from July, 1921 to July, 1922, and house resident at the Howard Hospital in Philadelphia from July, 1922 to January, 1923, when he entered The Mayo Foundation as a fellow in surgery. His services included general diagnosis, fifteen months; laryngology, oral and plastic, three months; operative surgery, fifteen months, and surgical pathology, three months. He left The Mayo Foundation January 1, 1926, and is now practicing in Goldsboro, North Carolina. He is a member of the Wayne County Medical Society, the Medical Society of the State of North Carolina, and Kappa Alpha (Southern). His address is Goldsboro, North Carolina.

Donnell B. Cobb

Bibliography.—1. Affection of the common bile-duct associated with jaundice. Surg., Gynec., and Obst., 1926, xliii, 310–316.
2. Surgical treatment in cases of obstructive jaundice. Practitioner, 1926. (In press.) (With E. S. Judd.)

Coffey, Jay R., B.S., M.D., was born June 24, 1894 in Moscow, Idaho; attended the University of Oregon in 1912 and 1913, the University of Wisconsin in 1914 and 1915, the Oregon Agricultural School in 1915 and 1916, where he received the degree of B.S., and later the University of Oregon, where he received the degree of M.D. in 1923; was intern at St. Agnes Hospital in Baltimore from July, 1923 to July, 1924, when he entered The Mayo Foundation as a fellow in surgery. His services thus far have included general diagnosis, one year; neurologic surgery, three months, and operative surgery, three months. During the war he was First Lieutenant in the Medical Officers Reserve Corps. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the Americam Medical Association, and Nu Sigma Nu. He married Josephine Richardson June 24, 1914. His address is Rochester, Minnesota.



Jay R. Coffey

Cole, R. King, M.D., was born March 27, 1875 in Grayson County, Texas; received the degree of M.D. from Vanderbilt University, Nashville, Tennessee, in 1899; was intern in the Missouri, Kansas, and Texas Railroad Hospital, Sedalia, Missouri, two years; was contract surgeon in the army from March, 1902 to June, 1905, and was eye, ear, nose, and throat specialist in Dallas, Texas, from May, 1911 to September, 1916. He entered The Mayo Foundation September 20, 1916 as a special student in ophthalmology, and left July 8, 1917 to enter military service. He was commissioned Captain in the Medical Reserve Corps at that time, was raised to the rank of Major May 20, 1918, and became Major in the Medical Corps of the regular army July 1, 1920. He was camp surgeon at Camp Robinson, Wisconsin, from July to September, 1917; assistant ophthalmologist and assistant commanding officer, Base Hospital, and assistant division surgeon, Second Division, Camp Travis, Texas, from September, 1917 to September, 1921. Since September 27, 1921 he has been professor of Military Science and

R. King Cole

Tactics, Baylor University College of Medicine, Dallas, Texas. He is a member of the Dallas County Medical Society, the Texas State Medical Association, the Southern Medical Association, the Association of Military Surgeons of the United States, and the American Medical Association. He married Dorothy L. Fowler January 22, 1921. His address is Baylor University College of Medicine, Dallas, Texas.

Collins, Arthur N., B.A., M.D., F.A.C.S., was born September 12, 1876 in Dubuque, Iowa; received the degree of B.A. from the University of Minnesota in 1902, and of M.D. from Harvard University, Cambridge, Massachusetts, in 1906; was intern for six months at the Danvers Insane Hospital, Massachusetts, and six months at the Long Island Hospital, Boston. He came to the Mayo Clinic in August, 1907, as a member of the clinical staff, and left in September, 1908 to establish a general practice in Austin, Minnesota, where he remained until January, 1912. He then moved to Duluth, Minnesota, where he is now practicing surgery. During the war he was Captain in the Medical Corps, U. S. A., stationed at the Base Hospital, Camp Dodge, Iowa; here he served as assistant chief of the surgical service and later as chief. He is a member of the Duluth-Superior Academy of Medicine, the Soo Line Surgical Association, the St. Louis County Medical Society, the Minnesota State Medical Association, the Minnesota Academy of Medicine, the Western Surgical Association, the American College of Surgeons, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Florence E. Johnson October 24, 1908. His address is 400 Lyceum Building, Duluth, Minnesota.

Arthur N. Collins

Bibliography.—1. A lead shot in the appendix. Jour. Minn. State Med. Assn., 1911, xxxi, 236–237.

2. Epidemic jaundice. Jour. Minn. State Med. Assn., 1911, xxxi, 305–309.
3. Contagious and infectious diseases. Mil. Surgeon, 1911, xxviii, 414–425.
4. Strangulated inguinal hernia in early infancy. Ann. Surg., 1913, lvii, 188–203.
5. The thyroid and its secretion. St. Paul Med. Jour., 1913, xv, 160–167.
6. Strangulated inguinal hernia in early infancy. Journal-Lancet, 1913, xxxiii, 223–230.
7. Membranous pericolitis. Journal-Lancet, 1913, xxxiii, 341–346.
8. Urinary lithiasis in infancy. Am. Jour. Dis. Child., 1913, vi, 245–263.
9. Jackson's veil or pericolic membrane. Med. Rec., 1914, lxxxv, 454.
10. Thumb forceps to facilitate anastomosis. Ann. Surg., 1914, lx, 373.

11. Multiple rheumatoid infection due to infected appendix. Detroit Med. Jour., 1915, xv, 299.
12. Anti-typhoid prophylaxis among railway employees. Railway Surg. Jour., 1915–1916, xxii, 265–270.
13. Local anesthesia in minor and less major operations. Railway Surg., Jour., 1916, xxii, 379–383.
14. Perforating gastric ulcer following gastro-enterostomy. Journal-Lancet, 1916, xxxvi, 355–360.
15. Diagnosis and prognosis of urinary stone in infant and child. Arch. Diagn., 1917, x, 259–269.
16. Paraffin treatment of burns. Minn. Med., 1919, ii, 8–12.
17. Foreign bodies in bone and soft tissues. Journal-Lancet, 1920, xl, 121–126; also Railway Surg., Jour., 1920–1921, xxvii, 7–13.
18. Peritonitis and intestinal incubation. Minn. Med., 1921, iv, 9–15.
19. Cerebellar cyst. Journal-Lancet, 1922, xlii, 385–388; also Tr. Assn. Res. and Ex-Res. Phys., Mayo Clinic, 1922, iii, 57–67.
20. Social insurance. Journal-Lancet, 1924, xliv, 201–205.
21. Tracing infections in a surgical service. Minn. Med., 1925, viii, 181–184. (With F. Ritz.)
22. Thrombo-angiitis obliterans. Tr. Assn. Res. and Ex-Res. Phys., Mayo Clinic, 1925, vi, 105–118. (With G. C. MacRae.)

Collins, Harry A., B.S., M.D., was born August 13, 1896 in Omaha, Nebraska; received the degree of B.S. in 1920, and of M.D. in 1922, from Creighton University, Omaha; and was intern at St. Joseph's Hospital, Omaha, from July, 1922 to July, 1923, when he entered The Mayo Foundation as a fellow in medicine. His services thus far have included medical hospital residence, one year; general diagnosis, one year, and neurology, six months. Since January, 1922 he has been First Lieutenant in the Medical Officers' Reserve Corps, U. S. A. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the Douglas County Medical Society, the Nebraska State Medical Association, and Phi Beta Pi. His address is Rochester, Minnesota.

Harry A. Collins

Comfort, Mandred W., A.B., M.D., M.S. in Neurology, was born June 10, 1895 in Hillsboro, Texas; received the degree of A.B. in 1916 from Austin College, Sherman, Texas, of M.D. in 1921 from the University of Texas, and of M.S. in Neurology from the University of Minnesota in 1926; taught in Sterling City, Texas, in 1916 and 1917, and was adjunct professor of anatomy at the University of Texas from 1921 to 1923. He entered The Mayo Foundation July 1, 1923 as a fellow in neurology; his services thus far have included neurology, one year; general diagnosis, six months, and pathologic anatomy, one year, three months of which he was first assistant. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, Alpha Kappa Kappa, Alpha Omega Alpha, and an honorary member of the Hill County Medical Society (Texas). His address is Rochester, Minnesota.

Mandred W. Comfort

Bibliography.—1. Chronic anterior poliomyelitis with achondroplasia: report of a case. Med. Clin. N. Amer., 1925, viii, 1287–1293.

2. Yellow spinal fluid associated with tumor of the brain. Arch. Neurol. and Psychiat., 1926, xv, 751–776.

Conner, H. Milton, M.D., F.A.C.P., was born May 21, 1881 in Morrison, Illinois; received the degree of M.D. from Kansas Medical College in 1909; was intern in the Stormont Hospital, Topeka, Kansas, from 1909 to 1910; was Professor of Pathology, Kansas Medical College, from 1910 to 1913; practiced in Topeka, Kansas, from 1910 to 1918, and during the war was a member of the Medical Advisory Board, District of Topeka. He entered the Mayo Clinic April 1, 1918, as assistant in the Section on Surgical Pathology, April 1, 1919 he became first assistant, and July 1, 1920 associate, in a section in the Division of Medicine. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the Southern Minnesota Medical Association, the American Medical Association, the American Col-

H. Milton Conner

lege of Physicians, the American Congress of Internal Medicine, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Pana C. Adamson June 18, 1902. His address is Rochester, Minnesota.

Bibliography.—1. Importance of laboratory diagnosis. Jour. Kansas Med. Soc., 1912, April, p. 121.
2. Modern methods in diagnosis of syphilis. Jour. Kansas Med. Soc., 1913, July, p. 265.
3. Vaccine therapy. Jour. Kansas Med. Soc., 1915, May, p. 144.
4. The clinical value of the Wassermann reaction. Jour. Kansas Med. Soc., 1918, xviii, 263.
5. Clinical efficiency and terminology in cancer of the breast. Surg., Gynec., and Obst., 1919, xxix, 44–51. (With W. C. MacCarty.)
6. The significance of slight albuminuria. Med. Ins. and Health Conservaton, 1921, xxx, 209–217. (Wtih A. H. Sanford, T. B. Magath, and F. J. Heck.)
7. Non-tuberculous infection of the lung. Minn. Med., 1922, v, 364–369.
8. Diagnosis of conditions associated with splenomegaly. Minn. Med., 1924, vii, 35–41.
9. Right diaphragmatic hernia of short esophagus type. Am. Jour. Med. Sc., 1924 clxvii, 672–679. (With S. Fineman.)
10. Symptoms and diagnosis of nontuberculous pulmonary suppuration. Med. Clin. N. Amer., 1925, viii, 1257–1272.
11. Purpura hæmorrhagica as a complication in the treatment of syphilis. Am. Jour. Syph., 1925, ix, 262–273. (With P. A. O'Leary.)
12. Diseases of the liver. V. A comparative study of tests for hepatic function in certain diseases of the hematopoietic system. Arch. Int. Med., 1926, xxxviii, 167–185. (With C. H. Greene.)

Constans, George M., B.A., B.S., M.D., was born September 20, 1890 in Blue Earth, Minnesota; received the degree of B.A. in 1912 from Carleton College, Northfield, Minnesota, and of B.S. in 1915, and of M.D. in 1917, from the University of Minnesota; was intern at the City and County Hospital, St. Paul, for six weeks, and at the United States Naval Hospital, Great Lakes, Illinois, for one year; was a Lieutenant, Medical Corps, U. S. N., from May, 1917 to October, 1919; practiced medicine at Donnybrook, North Dakota, for three years, and did graduate work in ophthalmology and otolaryngology at the University of Minnesota in 1923 and 1924. He is Senior Lieutenant, Medical Corps, U. S. N. R., acting flight surgeon. He entered The Mayo Foundation October 1, 1924 as a second-year fellow in ophthalmology; his services thus far have included ophthalmology, fifteen months. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the American Medical Associa-

George M. Constans

tion, and Phi Beta Pi. He married Mary H. Wilson May 20, 1917. His address is Rochester, Minnesota.

Bibliography.—1. Treatment of contused and lacerated wounds. Journal-Lancet, 1921, xli, 258–262.
2. Sanitation in rural and small urban communities. Journal-Lancet, 1923, xliii, 328–333.

Copenhaver, Nat H., B.A., M.A., M.S. in Surgery, F.A.C.S., was born November 29, 1890 in Bristol, Tennessee; received the degree of B.A. from Roanoke College, Salem, Virginia, in 1910; of M.A. in 1912, and of M.D. in 1917, from Yale University, New Haven, Connecticut, and of M.S. in Surgery from the University of Minnesota in 1922; and was intern in Rhode Island General Hospital, Providence, from 1917 to 1918. He entered The Mayo Foundation as a fellow in surgery May 1, 1919; his services included general diagnosis, eleven months; operative surgery, twenty-nine months, and urology, six months. He served as First Lieutenant, Medical Corps, A. E. F., in 1918 and 1919, stationed at Camp Taylor, Kentucky, at Allentown, Pennsylvania, and at United States Hospital 19, Fort Oglethorpe, Georgia. He left The Mayo Foundation January 1, 1923, and has since been practicing surgery in Bristol, Tennessee. He is a member of the Tri-County (Sullivan, Johnson, and Carter) Medical Society, the Tennessee State Medical Association, the American College of Surgeons, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Nu Sigma Nu, and Sigma Xi, and an associate member of the Southwest Virginia Medical Society and of the Medical Society of Virginia. He married Mary A. Slack October 16, 1926. His address is Bristol, Tennessee.

Nat H. Copenhaver

Bibliography.—1. Intra-abdominal hernias. Arch. Surg., 1923, vii, 332–346.
2. Urinary lithiasis. Virginia Med. Month., 1924, li, 481–484.

Corkery, John R., M.D., was born December 7, 1882 in Toledo, Ohio; attended the University of Chicago from 1902 to 1904; received the degree of M.D. from Rush Medical College, University of Chicago, in 1905; was intern in St. Mary's Hospital, Evansville, Indiana, four months in 1905, in St. Luke's Hospital, Spokane, Washington, six months in 1906, and practiced medicine in Spokane, Washington, from 1907 to 1917. He entered The Mayo Foundation as a special student February 1, 1918; his services included general diagnosis, five months; orthopedics, three months, and surgical pathology, nine months. He left The Mayo Foundation September 1, 1919, to practice surgery in Spokane, Washington. He is a member of the Spokane County Medical Society, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Ida Peterson October 1, 1908. His address is Spokane Clinic Building, Spokane, Washington.

John R. Corkery

Bibliography.—1. Histogenesis of papillary carcinoma of the bladder. Northwest Med., 1919, xviii, 234.

2. Early lesions of the gall-bladder. Am. Jour. Med. Sc., 1920, clix, 646. (With W. C. MacCarty.)

3. Fish-scale gall-bladder. Ann. Surg., 1920, lxxi, 723–725.

4. Early gall-bladders. Northwest Med., 1921, xxi, 56.

5. Chronic catarrhal cholecystitis with lipoid deposit. Ann. Surg., 1922, lxxvi, 736–738.

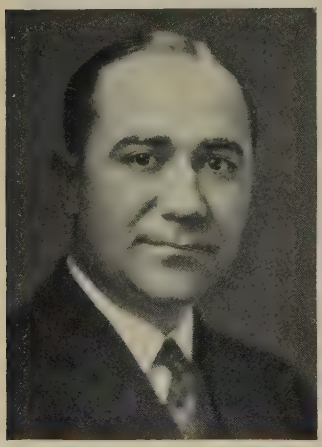
Costolow, William E., B.A., M.D., was born June 13, 1892 in Kirksville, Missouri; received the degree of B.A. from the University of Missouri in 1913, and of M.D. from the University of Pennsylvania in 1916, and was intern at the University of Pennsylvania Hospital from July 1, 1916 to August 1, 1917, with service at the Philadelphia General Hospital from July 1, 1916 to January 1, 1917. From 1917 to 1919 he served as Lieutenant in the Medical Corps of the U. S. Navy, stationed at the Naval Hospital in Philadelphia for eight months and at the Naval Training Station, Norfolk, Virginia, for eighteen months. He entered The Mayo Foundation October 6, 1919 as a fellow in surgery; his services included ortho-

William E. Costolow

pedics, three months; gynecology, nine months; radium therapy, three months, and obstetrics, three months (Medical School, Minneapolis). He left the Foundation April 1, 1921, and is practicing radiology and roentgenology in Los Angeles in association with Dr. Albert Soiland. He is a member of the Los Angeles County Medical Society, the California Medical Association, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and a diplomate of the National Board of Medical Examiners. He married Margaret MacDonald October 15, 1916. His address is The Albert Soiland Radiologic Clinic, 1407 South Hope Street, Los Angeles, California.

Bibliography.—1. Short wave *x*-rays in other than deep conditions. Radiology, 1924, iii, 23–25. (With A. Soiland.)

Counseller, Virgil S., B.S., M.D., was born November 2, 1892 in Elida, Ohio; received the degree of B.S. in 1918 from the University of Chicago, and of M.D. in 1919 from Rush Medical College, University of Chicago; was intern at the Evanston Hospital from July to November, 1919, and at the St. Luke's Hospital, Chicago, from November, 1919 to December, 1920, and was associated in surgery with Dr. William Parkes in Evanston from 1920 to 1924. He was also assistant surgeon at the University of Illinois and junior attending surgeon at the Evanston Hospital from 1921 to 1924, and now *in absencia.* He entered The Mayo Foundation January 1, 1924 as a fellow in surgery; his services thus far have included postoperative treatment, three months; general diagnosis, one year, and pathologic anatomy, nine months. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the Chicago Medical Society, the Chicago Society of Industrial Medicine and Surgery, the American Medical Association, Chi Phi, and Alpha Kappa Kappa. He married Gladys Britten October 11, 1922. His address is Rochester, Minnesota.



Virgil S. Counseller

Bibliography.—1. Roentgenologic diagnosis of cholecystic disease with the aid of sodium salt of tetrabromphenolphthalein. Am. Jour. Roentgenol., 1924, xii, 403–413. (With R. D. Carman.)

2. Radiologic diagnosis of cholecystic disease by the Graham method. Tr. Sect. Gastro-Enterol. and Proctol., Am. Med. Assn., 1924, 77–84. (With R. D. Carman.)

3. Primary cancer of the liver. Arch. Int. Med., 1926, xxxvii, 363–387. (With A. H. McIndoe.)

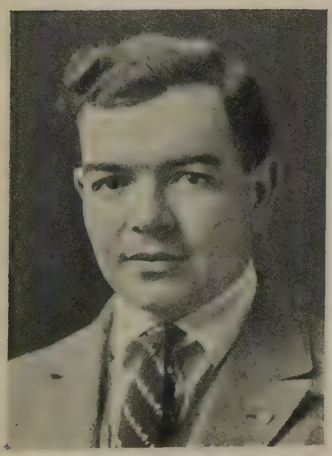
Craig, Winchell McK., B.A., M.D., was born April 27, 1892 in Washington Court House, Ohio; received the degree of B.A. from Ohio Wesleyan University, Delaware, Ohio, in 1915, and of M.D. from Johns Hopkins University, Baltimore, in 1919, and was intern at St. Agnes Hospital, Baltimore, from 1919 to 1921. He entered The Mayo Foundation July 1, 1921 as a fellow in surgery; his services thus far have included general diagnosis, three months; postoperative treatment, three months; surgical pathology, two years; operative surgery, nine months, and neurologic surgery, fifteen months. He was resident physician at the Colonial Hospital, Rochester, from April to October, 1924, and was appointed first assistant in the Section on Neurology, Division of Surgery, Mayo Clinic, October 1, 1924. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the American Medical Association, the Osler Medical Historical Society, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Beta Theta Pi, and Phi Beta Pi. His address is Rochester, Minnesota.

Winchell McK. Craig

Bibliography.—1. Involvement of the lymph glands in cancer of the cecum. Ann. Surg., 1923, lxxvii, 698–710. (With W. C. MacCarty.)

2. Lymph glands in carcinoma of the small intestines. Surg., Gynec., and Obst., 1924, xxxviii, 479–485.

Crane, William W., Jr., A.B., M.D., was born April 30, 1895 in Oakland, California; received the degree of A.B. in 1917, and of M.D. in 1922, from Leland Stanford University; served in the United States Army from 1917 to 1919; was intern in the San Francisco Hospital from July, 1921 to July, 1922, and was in private practice in Oakland for one year. He entered The Mayo Foundation July 2, 1923 as a fellow in surgery; his services thus far have included research studies in pathology, six months; general diagnosis, six months; orthopedic diagnosis, three months; urology, nine months, and operative surgery six months. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, Sigma Nu, and Nu Sigma Nu. His address is Rochester, Minnesota.



William W. Crane, Jr.

Crawford, Albert S., B.S., M.D., was born March 4, 1887 in Hermosillo, Mexico; received the degree of B.S. in 1910 from Pomona College, California, of M.D. in 1915 from Cornell University, College of Medicine, New York City; was intern at the Lane Hospital, San Francisco, from July, 1915 to July, 1916, and at the New Haven Hospital, Connecticut, from July, 1916 to July, 1917, and was surgeon and professor of anatomy at the Hunan-Yale Hospital and Medical College, Changsha, China, from 1917 to 1921. He entered The Mayo Foundation January 1, 1922 as a fellow in surgery; his services consisted of general diagnosis, one year; operative surgery, three months, and neurologic surgery, seventeen months. He was appointed first assistant in neurologic surgery July 1, 1923. He left The Mayo Foundation September 1, 1924, and was associate professor of surgery at the University of Wisconsin, College of Medicine, and neurosurgeon to the Wisconsin State General Hospital until February 1, 1926, when he went to Detroit as neurosurgeon to the Henry Ford Hospital. He is a member of the California Medical Association, the Minnesota State Medical Association, Phi Beta Kappa, and Phi Alpha Sigma. He married Hester Barnes July 28, 1917. His address is Henry Ford Hospital, Detroit, Michigan.

Albert S. Crawford

Bibliography.—1. A study of ventriculography. Radiology, 1924, ii, 65–73. (With A. W. Adson and W. O. Ott.)

2. Some observations on decerebrate rigidity and plastic tonus after removal of the lumbar sympathetics. Am. Jour. Physiol., 1925, lxxiv, 285–290. (With W. J. Meek.)

Crenshaw, John L., M.D., was born January 2, 1882 in Elizabeth, New Jersey; attended the University of Virginia five years, received the degree of M.D. in 1906; was intern in the University of Virginia Hospital from June, 1906 to October, 1907, and practiced medicine in Charlottesville, Virginia, from October, 1907 to May, 1910, when he entered the Mayo Clinic. He was intern in St. Mary's Hospital from July, 1910 to October, 1911, when he was appointed associate in the Section on Urology. He is associate professor of urology, The Mayo Foundation, Graduate School, University of Minnesota. During the war he was chief of urological service and Captain, Medical Corps, at Embarkation Hospital, Camp Stuart, Newport News, Virginia. He is a member of the Olmsted County Medical Society, Minnesota State Medical Association, Southern Minnesota Medical Association, American Urological Association, American Medical Association, American Association of Genito-urinary Surgeons, Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Phi Rho Sigma. He married Nell Bryant October 18, 1919. His address is Rochester, Minnesota.

John L. Crenshaw

Bibliography.—1. Postoperative complications following prostatectomy. Jour. Am. Med. Assn., 1917, lxviii, 611–614. Tr. Sect. Genito-Urin. Dis. Am. Med. Assn., 1916, lxvii, 181–190. Discussion, 199–209.

2. Prostatic calculi. Minn. Med., 1919, ii, 52–56. (With E. S. Judd.)

3. The treatment of urethral caruncle. Minn. Med., 1920, iii, 54–57.

4. The follow-up record in cases of tumor of the bladder. Jour. Urol., 1921, v, 211–213.

5. Vesical calculus. Jour. Am. Med. Assn., 1921, lxxvii, 1071–1075.

6. Coincident calculus and diverticulum of the bladder. Jour. Urol., 1922, viii, 185–195. (With C. B. R. Crompton.)

7. A review of 153 cases of bladder stone removed by lithotrity. Minn. Med., 1923, vi, 77–79.

8. Observations on malignant epithelial neoplasms of the bladder. Tr. Am. Assn. Genito-Urin. Surg., 1925, xviii, 197–207.

Crich, William A., L.D.S., D.D.S., was born August 10, 1897 in Brussels, Ontario; received the degree of L.D.S. from the Royal College of Dental Surgeons, Toronto, and of D.D.S. from the University of Toronto in 1923; was overseas in the naval air service from the fall of 1917 until the spring of 1919, and practiced in Caledonia, Ontario, in 1923 and 1924. He entered The Mayo Foundation May 5, 1924 as a fellow in dental surgery. After twenty-six months of service he left The Mayo Foundation and is now at the Lockwood Clinic. His address is Lockwood Clinic, Toronto, Ontario.

William A. Crich

Crispin, Egerton L., Ph.B., M.D., M.S. in Medicine, F.A.C.P., was born October 10, 1877 in Salem, New Jersey; received the degree of Ph.B. from Illinois College, Jacksonville, Illinois, in 1902, of M.D. from Johns Hopkins University, Baltimore, in 1906, and of M.S. in Medicine from the University of Minnesota in 1917; was pathologist at the Pennsylvania Hospital, Philadelphia, from 1906 to 1907, and the medical and surgical resident from 1907 to 1909, and roentgenologist there from 1909 to 1910; spent the next two years in travel and study at various European clinics, and practiced in Los Angeles from 1912 to 1913. He came to the Mayo Clinic in October, 1913 as assistant in one of the sections in the Division of Medicine. He left the Clinic October 1, 1916, and is practicing in Los Angeles, California. During the war he was Commander in the Medical Corps, United States Naval Reserve Forces, on active duty from November, 1917 to March, 1919 in Scotland, France, and on the High Seas. He is a member of the Los Angeles Clinical and Pathological Society, the Los Angeles County Medical Society, the Southern California Medical Society, the California Medical Association, the American Medical Association, the American Academy of Medicine, the Congress on

Egerton L. Crispin

Internal Medicine, the American College of Physicians, the Association of Military Surgeons, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Angela Shipman May 27, 1913. His address is 1031 Pacific Mutual Building, Los Angeles, California.

Bibliography.—1. Stratified squamous epithelium in a cyst of the breast. Bull. Ayer Clin. Lab., Pennsylvania Hospital, 1907, No. 4, 26–29.
2. A case of sarcoma of a retroperitoneal undescended testis strangulated by a twist. Bull. Ayer Clin. Lab., Pennsylvania Hospital, 1907, No. 4, 30–37. (With R. G. LeConte.)
3. Duodenal ulcer with achlorhydria. Interstate Med. Jour., 1916, xxiii, 890.
4. Visceral crises in angioneurotic edema. St. Paul Med. Jour., 1916, xviii, 127–133.
5. Snuff-poisoning. Journal-Lancet, 1916, xxxvi, 48–49.
6. Toxic gastric hemorrhage. Calif. State Jour. Med., 1917, xv, 308–312.

Crompton, Charles R. B., M.B., M.S. in Urology, was born February 10, 1892 in Brantford, Ontario; received the degree of M.B. from the University of Toronto in 1915, of M.S. in Urology from the University of Minnesota in 1922, and from 1915 to 1919 was Captain in the Canadian Army Medical Corps, stationed at the University of Toronto Base Hospital. He entered The Mayo Foundation September 29, 1919 as a fellow in surgery, and transferred his major to urology April 1, 1921; his services included neurology, three months; general diagnosis, twelve months (with experimental surgery, three months, and proctoscopy, three months); urology, eighteen months; dermatology, three months, and surgery, three months. He left The Mayo Foundation December 31, 1922, and is now with the Division of Urology and Urological Surgery in the Lockwood Clinic, Toronto. He is a member of the Toronto Academy of Medicine, the College of Physicians and Surgeons of Ontario, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Nu Sigma Nu, and Alpha Omega Alpha. He married Harriet Cambre September 16, 1921. His address is 164 Bloor Street East, Toronto, Ontario.

Charles R. B. Crompton

Bibliography.—1. Coincident calculus and diverticulum of the bladder. Jour. Urol., 1922, viii, 185–196. (With J. L. Crenshaw.)
2. Partial spontaneous inversion of a diverticulum of the bladder with dumb-bell stone. Jour. Urol., 1923, ix, 283–288.
3. Results of therapy in cord bladder complicating syphilis of the nervous system. Abstract, Collected Papers of the Mayo Clinic, 1923, xv, 494–495.

Crumley, William G., M.D., was born June 20, 1883 in Atlanta, Georgia, and received the degree of M.D. from the Atlanta College of Physicians and Surgeons in 1912. He entered the Mayo Clinic July 1, 1912 as a fellow in surgery; his services included surgical pathology, fifteen months; postoperative care, one year; general diagnosis, five months; and surgery, seven months. He was on leave of absence in the service of the American Red Cross from January 1, 1915 to January 1, 1916. He was appointed head of the Section on Postoperative Care July 1, 1916. He left the Mayo Clinic January 20, 1917, to enter military service and remained during the period of the war. He was a member of the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He died August 9, 1924 at his home in Atlanta, Georgia.

William G. Crumley

Bibliography.—1. Neutral solution of chlorinated soda (Dakin's solution) in the normal peritoneal cavity. Jour. Am. Med. Assn., 1918, lxx, 840–842. (With F. C. Mann.)

Culligan, John M., Litt.B., B.S., M.B., M.S. in Urology, was born January 17, 1895 in Yankton, South Dakota; received the degree of Litt.B. in 1915 from Notre Dame University, South Bend, Indiana; of B.S. in 1918, of M.B. in 1920, of M.D. in 1921, and of M.S. in Urology in 1925, from the University of Minnesota. He was intern at the City and County Hospital, St. Paul, from July 1, 1920 to July 1, 1921, when he entered The Mayo Foundation as a fellow in medicine. He transferred his major to urology in July, 1922. His services included general diagnosis, fifteen months; urology, eighteen months; surgical pathology, two months, and operative surgery, ten months. He left The Mayo Foundation April 1, 1925, and is now practicing urologic and general surgery in St. Paul, Minnesota. He is a member of the Ramsey County Medical Society, the Minnesota State Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Margaret McGovern January 5, 1926. His address is 718 Lowry Building, St. Paul, Minnesota.

John M. Culligan

Bibliography.—1. Renal stones permeable to the *x*-ray. Jour. Urol., 1924, xi, 559–564; also Radiology, 1924, ii, 411–413.
2. Advantages of direct cystoscopy. Minn. Med., 1925, viii, 368–371. (With M. P. Omohundro.)
3. Phleboliths. Jour. Urol., 1926, xv, 175–188.
4. Ureteral stones. Minn. Med., 1926, ix, 19–21.

Culligan, Leo C., B.S., M.D., was born December 7, 1897 in Yankton, South Dakota; attended the College of St. Thomas, St. Paul, Minnesota, from 1915 to 1917, and the University of Minnesota from 1917 to 1922, receiving the degree of B.S. in 1921 and of M.D. in 1922; was intern at the City and County Hospital, St. Paul, from July, 1922 to July 1, 1923, when he entered The Mayo Foundation as a fellow in surgery. His services thus far have included postoperative treatment, three months; general diagnosis, one year; orthopedic diagnosis, three months; pathologic anatomy, six months; medical hospital service, three months, and operative surgery, three months. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, and Alpha Kappa Kappa. His address is Rochester, Minnesota.

Leo C. Culligan

Dahleen, Henry E., M.D., was born July 28, 1882 in Granite Falls, Minnesota; received the degree of M.D. from the University of Minnesota in 1908; was intern in the Mounds Park Sanitarium, St. Paul, from 1908 to 1909; was first assistant to Dr. C. E. Riggs, St. Paul, from 1909 to 1910; practiced medicine in Chewelah, Washington, from 1910 to 1915, and in Hankinson, North Dakota, from 1915 to 1917. He entered The Mayo Foundation November 1, 1917, as a special student in surgery; his services included general diagnosis, one year; orthopedics, six months; urology, three months; surgery, eleven months, and postoperative care, two months. He left The Mayo Foundation July 1, 1920 to practice surgery in San José, California. He became president of the O'Connor

Henry E. Dahleen

Sanitarium in San José in 1926. He is a member of the Santa Clara County Medical Society, the California Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Filetia Cross August 30, 1911. His address is 314 Twohy Building, San José, California.

Daly, Joseph, B.A., B.A. in Physiology, was born March 21, 1886 in Iona, Prince Edward Isle; received the degree of B.A. in 1909 from Laval University, Quebec, and a Rhodes scholarship to Oxford University, from which he received the degree of B.A. in the Honor School of Physiology in 1912; he also received the degree of M.B. from Toronto University in 1915; was intern at St. Michael's Hospital, Toronto, from 1915 to 1916, at the Muskoka Free Hospital for Consumptives from 1916 to 1917, assistant superintendent at the Provincial Hospital for the Insane, Ponoka, Alberta, from 1917 to 1918, and intern at the Toronto General Hospital from 1918 to 1919; practiced in Belleville, Ontario, for three and one-half years, and came to The Mayo Foundation January 1, 1923 as a fellow in medicine. His services included general diagnosis, nine months; radium and roentgen therapy, eighteen months; neurology, six months, and medical hospital service, three months. He left the Clinic June 15, 1926, and after studying in Europe for three months opened an office in Toronto. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the Hastings County Medical Association, the Ontario Medical Association, the American Medical Association, and the British Medical Association. He married Alberta McNab June 3, 1920. His address is Toronto, Ontario.

Joseph Daly

Davis, Austin C., A.B., M.D., was born August 12, 1891 in Libertyville, Iowa; attended Parsons College, Fairfield, Iowa, from 1910 to 1912; received the degree of A.B. in 1913, and of M.D. in 1916, from the University of Iowa; was intern at the University Hospital, Iowa City, in 1916 and 1917, and hospital chemist there the following year. During the war he served as First Lieutenant in the Medical Corps, U. S. A. From 1919 to July 1, 1923 he lectured in medicine at the University of Iowa, and then came to the Mayo Clinic as first assistant in one of the sections on medicine. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the American Medical Association, Phi Kappa Psi, Nu Sigma Nu, Gamma Alpha, and Sigma Xi. He married Helen L. Martin September 22, 1917. His address is Rochester, Minnesota.

Austin C. Davis

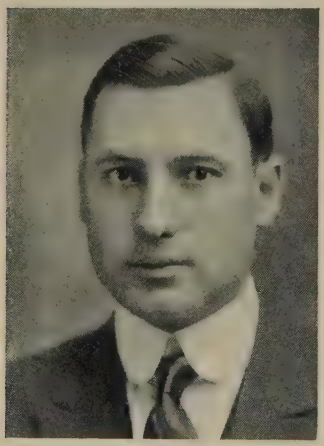
Davis, Kenneth S., B.S., M.D., M.S. in Roentgenology, was born December 29, 1894 in Marion, South Dakota; received the degree of B.S. in 1916, and of M.D. in 1918, from the University of Nebraska, and of M.S. in Roentgenology in 1924 from the University of Minnesota; was intern at the State Hospital, Omaha, Nebraska, for one year, at the Naval Hospital, New London, Connecticut, for one year, and during the war was First Lieutenant, Medical Corps, U. S. N. R. F., on active duty from July, 1918 to April, 1920. He was assistant to Dr. Homer Davis, Genoa, Nebraska, for the remainder of 1920. He entered The Mayo Foundation January 1, 1921 as a fellow in roentgenology; his services included pathologic anatomy, six months; roentgenology, two years and three months, and roentgen-ray therapy, three months. He was on leave of absence from July 1 to October 1, 1921. He left The Mayo Foundation May 1, 1924, and is now roentgenologist at St. Vincent's Hospital, Los Angeles. He is a member of the Los Angeles County Medical Society, the California Medical Association, the Medical Association of Southern California, the Radiological

Kenneth S. Davis

Society of North America, the Southern California Pathological Society, the Association of Military Surgeons, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Nu Sigma Nu, and Sigma Xi. He married Ursula Walker January 17, 1924. His address is St. Vincent's Hospital, Los Angeles, California.

Bibliography.—1. The history of radium. Radiology, 1924, ii, 334–342.
2. Pulmonary fibrosis. Radiology, 1924, iii, 150–157.
3. Intrathoracic changes following *x*-ray treatment: a clinical and experimental study. Radiology, 1924, iii, 301–322.
4. Roentgenologic evidence of spinal-cord tumors: report of three cases. Radiology, 1924, iii, 185–188. (With R. D. Carman.)
5. Case reports: primary carcinoma of the trachea. Radiology, 1925, v, 342–343.

Decker, Walter J., B.S., M.S., M.D., was born December 12, 1894 in Westfield, Pennsylvania; attended Pennsylvania State College, State College, Pennsylvania, in 1915 and 1916, and Johns Hopkins University from 1918 to 1921; received the degree of B.S. in 1918, and of M.S. in 1923, from St. Johns at Anapolis, and of M.D. in 1923 from Washington University, St. Louis; was intern for two months at the Methodist Episcopal, Brooklyn, New York, and at the St. Louis City Hospital from July, 1923 to July, 1924. He entered The Mayo Foundation October 1, 1924, as a fellow in otolaryngology; his services thus far have included surgical pathology, nine months, and laryngology, oral and plastic, six months. He was appointed first assistant in the Section on Laryngology, Oral and Plastic, Mayo Clinic, January 1, 1926. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, Phi Gamma Delta, and Nu Sigma Nu. His address is Rochester, Minnesota.



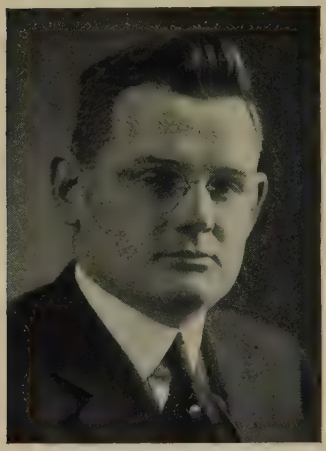
Walter J. Decker

Deedera, Carleton, B.A., M.D., M.S. in Experimental Surgery, was born October 1, 1880 in Seabright, New Jersey; received the degree of B.A. from Cornell University, Ithaca, New York, in 1904, of M.D. from Columbia University, New York, in 1907, and of M.S. in Experimental Surgery from the University of Minnesota in 1919; was intern in the General Memorial Hospital, New York, sixteen months, and practiced in New York City from 1907 to 1913, and in Los Angeles from 1914 to 1916. He entered The Mayo Foundation June 1, 1916 as a fellow in surgery; his services included general diagnosis, two months; surgery, eighteen months; roentgenology, three months, and experimental surgery, one year. He left The Mayo Foundation June 27, 1919, practiced in Bay City, Michigan until December, 1920, and in New York City since May, 1921. He is president of the Surgical Manufacturing Association. He is a member of the American Medical Association. He married Hortense Wadsworth January 25, 1914. His address is 552 West One Hundred Thirteenth Street, New York City.

Carleton Deedera

Bibliography.—1. The induction of anesthesia and ethylchlorid. California State Jour. Med., 1914, xii, 421.
2. New artery forceps. Jour. Am. Med. Assn., 1915, lxv, 1364.
3. Time-saving forceps. Jour. Am. Med. Assn., 1915, lxiv, 1318.
4. Studies in the transplantation of whole organs. I. Autotransplant of the left kidney to the neck with right nephrectomy in the dog. Jour. Am. Med. Assn., 1918, lxx, 6–9.
5. Autotransplantation of the kidney. Jour. Am. Med. Assn., 1919, lxxiii, 1836–1838.
6. Successful experimental homotransplantation of the kidney and the ovary. Surg., Gynec., and Obst., 1920, xxxi, 45–50.
7. A case of complete amenorrhea with fulminating symptoms: surgical demonstration of ovarian etiology. Endocrinology, 1920, iv, 229–231.
8. Improved "time-saving" forceps. Jour. Am. Med. Assn., 1921, lxxvi, 1499.
9. A new economic fee basis for operations. Med. Econ., 1924, i, No. 10, 13.
10. A method of restoration of function in endocrine glands. Am. Jour. Surg., 1925, xxxix, 195–197.

Delamere, Granville S., A.B., M.A., M.D., was born November 19, 1890 in Alton, California; received the degree of A.B. in 1917, of M.A. in 1919, and of M.D. in 1921 from the University of California, and interned at the University Hospital from June, 1921 to June, 1922. He entered The Mayo Foundation January 1, 1923 as a fellow in surgery. His services consisted of orthopedics, two weeks; general diagnosis, eight and one-half months; special research studies in pathology, fifteen months, and operative surgery, six months. He left The Mayo Foundation July 1, 1925, and is now practicing surgery in Oakland and Berkeley, California. He is a member of the Alameda County Medical Society, the California Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Edna Schaner May 12, 1921. His address is 601–602 Medical Building, Oakland, California.



Granville S. Delamere

Bibliography.—1. Arterial circulation of thyroid adenomas. Arch. Surg., 1924, viii, 165–175.

Depage, Pierre, M.B., was born November 3, 1894 in Brussels, Belgium; attended the University of Brussels where he received the degree of M.B. in 1922. He enlisted as a volunteer in the World War August 2, 1914, and completed his service at the Armistice with the rank of First Lieutenant in the flying corps. He received the Croix de Guerre of Belgium and of France, and the Médaille de l'Yser. He came to The Mayo Foundation October 1, 1922 as a C. R. B. fellow in surgery; his services included surgical pathology, three months; pathologic anatomy, six months; general diagnosis, three months; experimental pathology, three months, and operative surgery, six months. He left The Mayo Foundation July 1, 1924 to begin practice in Brussels, Belgium, and is an assistant in surgery at the University Hospital in Brussels. He is a member of the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married

Pierre Depage

Hélène Slosse May 3, 1921. His address is Clinique Antoine Depage, 130 Rue Américaine, Brussels, Belgium.

Bibliography.—1. Lettre d'Amérique. Bruxelles Méd., 1924, iv, No. 45.
2. Le diagnostic de l'ulcère duodénal. Bruxelles Méd., 1925, v, 1403–1406.
3. The effect of specific cholecystitis on the bile-concentrating activity of the gall-bladder. Jour. Lab. and Clin. Med., 1925, x, 544–547. (With J. L. Bollman and F. C. Mann.)

DesBrisay, Harold A., M.D.C.M., was born February 6, 1893 in New Westminster, British Columbia; received the degree of M.D.C.M. from McGill University, Montreal, in 1917; served as Captain in the Canadian Army Medical Corps from November, 1914 to February, 1916, and in England and France from June, 1917 to June, 1919 (in military hospitals from November, 1917 to December, 1918); was intern in the Vancouver General Hospital, British Columbia, from June, 1919 to February, 1920, and in St. Mary's Hospital and Augustana Hospital, Chicago, for ten months. He entered The Mayo Foundation January 1, 1921 as a fellow in medicine; his services included general diagnosis, one year; dermatology and syphilology, six months, and surgical pathology, six weeks. He left The Mayo Foundation August 15, 1922 to join the staff of the Lockwood Clinic, Toronto, where he remained until his appointment July 1, 1925 to assistant professorship in Medicine at Dartmouth University. He is internist at the Mary Hitchcock Memorial Hospital in Hanover, New Hampshire. He is a member of the Ontario Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Alpha Kappa Kappa, and Alpha Omega Alpha. He married Naomi Schmogrow March 19, 1921. His address is Dartmouth Medical School, Hanover, New Hampshire.

Harold A. DesBrisay

Bibliography.—1. Observations on course of 413 cases of untreated or inadequately treated syphilis. Am. Jour. Syphilis, 1924, viii, 558–568. (With J. H. Stokes.)
2. Certain factors in the diagnosis of syphilis unrecognized in earlier years of infection. Can. Med. Assn., Jour., 1924, xiv, 715–718. (With J. H. Stokes.)

Desjardins, Arthur U., M.D., M.S. in Radiology, F.A.C.P., was born May 6, 1884 in Waterville, Maine; attended Montreal College from 1898 to 1900, St. Joseph's College, Three Rivers, Canada, from 1900 to 1901; received the degree of M.D. from the University of Pennsylvania in 1912, and of M.S. in Radiology from the University of Minnesota in 1924, and had charge of the Fairfield Tuberculosis Sanatorium, Fairfield, Maine, from 1913 to 1914. From September, 1914 to December, 1915 he was connected with the American Hospital, Paris, and was assistant surgeon for the American Ambulance, Paris; from December, 1915 to September, 1916 was first assistant surgeon to Dr. Joseph Blake, Hôpital Militaire 76, Ris Orangis, France; was commissioned Captain in the Medical Officers' Reserve Corps, U. S. A., in June, 1917; ordered to active duty with the Medical Officers' Training Corps, Fort Riley, in August; was instructor in Military Surgery from November, 1917 to February, 1918, pathologist attached to the Central Medical Department Laboratory, Dijon, France, from February to June, and to Evacuation Hospital 2, Baccarat, France, from June to December, 1918; was pathologist and Commanding Officer at the Third Army Laboratory, Coblenz, Germany, from January until April, 1919; was promoted to Major in February, 1919, and to Lieutenant-Colonel in July, 1924. He entered The Mayo Foundation January 27, 1917 as a fellow in surgery, but transferred his major to roentgenology January 1, 1920. His services, which were interrupted by the war, included pathologic anatomy, six months, and roentgenology, ten months. During the summer of 1920 he studied radiological physics at the University of Cambridge, England. Since October, 1920 he has been head of the Section on Roentgen-ray Therapy, Mayo Clinic. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the Southern Minnesota Medical Association, the Clinical Congress of Internal Medicine, the Roentgen Society of England, the American College of Physicians, the Radiological Society of North America, the Council on Physical Therapy (American Medical Association), the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Marie Laure Jeanne d'Argy January 30, 1913. She died September 14, 1924. He married Beatrice Hardy in April, 1926. His address is Rochester, Minnesota.

Arthur U. Desjardins

Bibliography.—1. Wounds in war and methods of treatment. Jour. Am. Med. Assn., 1917, lxviii, 18–24.
2. Left paraduodenal hernia. Ann. Surg., 1918, lxvii, 195–202.
3. Radium and roentgen-ray therapy in malignancy, indications, contraindications, limitations, and recent developments. Jour. Radiol., 1922, iii, 226–230.
4. The therapeutic value of the roentgen ray. Ann. Clin. Med., 1922, i, 127–137.
5. Anatomic cross-section charts in estimating *x*-ray dosage. Jour. Radiol., 1923, x, 134–140.
6. The medical profession and the public. Editorial. Jour. Radiol., 1922, iii, 428–429.
7. Anatomic cross-section charts of the average male and female figures for the radiologist and the surgeon. New York, Hoeber, 1923.
8. Hodgkin's disease and lymphosarcoma. A clinical and statistical study. Jour. Am. Med. Assn., 1923, lxxxi, 925–927. (With Frances A. Ford.)
9. Improved illumination of viewing boxes for roentgen-ray plates or films. Radiology, 1924, ii, 32.
10. The present status of radiation therapy in cancer. Journal-Lancet, 1924, xliv, 103–109.
11. Blood count and blood pressure in high voltage therapy. Radiology, 1924, ii, 252–259. (With W. J. Marquis.)
12. Radiodermatitis and its treatment. Surg., Clin. N. Amer., 1924, iv, 479–493; also New Orleans Med. and Surg. Jour., 1924, lxxvii, 177–183, (With F. L. Smith.)
13. The reaction of abdominal tumors to radiation. Jour. Am. Med. Assn., 1924, lxxxiii, 109–113.
14. L'état actuel de la thérapie par les rayonnements dans le cancer. Arch. méd. belges, 1924, lxxvii, 557–570.
15. Dermatology and radiology. Urol. and Cutan. Rev., 1924, xxviii, 383–384.
16. Diathermy: History, use, indications. Hospital Management, 1924, xviii, 48–49; also Editorial, Surg., Gynec., and Obst., 1926, xlii, 576–578. (With Ann Kelley.)
17. Anatomic cross-section charts of the average male and female figures. (Abstract.) Tr. Assn. Res. and Ex-Res. Phys. Mayo Clinic, 1924, v, 55–58.
18. Radiotherapy in four unusual cases of malignant tumor. Med. Clin. N. Amer., 1925, viii, 1371–1379.
19. Pleuropneumonitis following *x*-ray treatment, and diffuse metastasis to the lungs from cancer of the breast. Radiology, 1925, iv, 265–272.
20. Direct or indirect biologic effects. (Editorial.) Radiology, 1925, iv, 432–433.
21. Radiotherapy and diathermy in blastomycosis. Am. Jour. Roentgenol., 1925, xiv, 14–16.
22. Radiotherapy at low and moderate voltages. Med. Jour. and Rec., 1925, cxxii, 669–672.
23. Common misconceptions in radiotherapy. Surg., Gynec., and Obst., 1926, xlii, 64–69.
24. The therapeutic value of roentgen rays. Minn. Med., 1926, ix, 82–87.
25. Radiotherapy for lymphoblastoma. Radiology, 1926, vii, 121–130.

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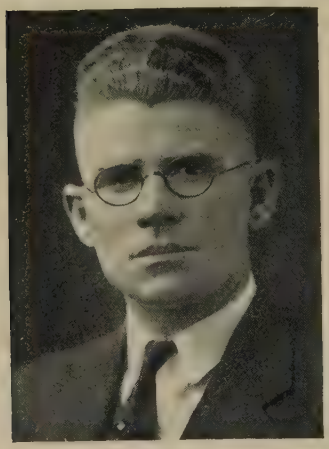

Claude F. Dixon

Bibliography.—1. The value of sodium chlorid in the treatment of duodenal intoxication. Jour. Am. Med. Assn., 1924, lxxxii, 1498–1502.

2. Pernicious anemia: a treatment. Texas State Jour. Med., 1925, xxi, 26–28. (With J. G. Burns.)

3. Pernicious anemia, following ileostomy. Jour. Am. Med. Assn., 1925, lxxxv, 17–20. (With J. G. Burns and H. Z. Giffin.)

Dixon, Robert K., B.S., M.B., M.D., was born August 1, 1898 in St. Charles, Minnesota; received the degree of B.S. in 1920, of M.B. in 1922, and of M.D. in 1923, from the University of Minnesota; was intern at the Providence Hospital, Detroit, Michigan, from October, 1922 to October, 1923, and has been in general practice two months in St. Charles, Minnesota, and three months in Detroit, Michigan. He entered The Mayo Foundation October 1, 1923 as a fellow in medicine; his services thus far have included general diagnosis, one year; pathologic anatomy, nine months, and neurology, six months. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, Sigma Phi Epsilon, and Phi Rho Sigma. He married Gladys McDonnell June 25, 1925. His address is Rochester, Minnesota.

Robert K. Dixon

Dobson, Herbert V., B.A., M.B., was born April 3, 1891 in Oro, Ontario; received the degree of B.A. in 1916 and of M.B. in 1919 from the University of Toronto, and was intern at the Toronto General Hospital from September, 1918 to March, 1919. From that time until October 10, 1923, when he entered The Mayo Foundation as a fellow in medicine, he was in general practice in Stayner, Ontario. His services thus far have included general diagnosis, six months; medical hospital service, six months; pathologic anatomy, six months; proctology, three months; medical research work, three months, and neurology, three months. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the Sincoe County Medical Association, the Ontario Medical Association, and Alpha Omega Alpha. His address is Rochester, Minnesota.

Herbert V. Dobson

Bibliography.—1. Effect of histamin on gastric secretion, with especial reference to achlorhydria: preliminary report. Jour. Am. Med. Assn., 1925, lxxxiv, 158–161.

Doe, Charles H., M.D., was born December 22, 1890 in Fort Payne, Alabama; received the degree of M.D. from the University of Pennsylvania in 1912; was intern in the Lying-in Hospital, New York, four months during the winter of 1912 to 1913, and in the Hospital of the Protestant Episcopal Church, Philadelphia, nine months. He entered The Mayo Foundation in May, 1915 as a fellow in surgery; his services included general diagnosis, five and one-half months; neurology, three months; orthopedic surgery, five months; surgery and postoperative care, fifteen months. He left The Mayo Foundation in September, 1917 to enter military service. He was commissioned First Lieutenant and later Captain, and did orthopedic and general surgery in England and later in France, until his discharge in May, 1920. From April, 1921 to October, 1922 he was in public health service at Tacoma, Washington. He spent the winter of 1922 to 1923 in London,

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England, studying genito-urinary surgery at St. Peter's Hospital, and general surgery at Charing Cross and St. Thomas Hospitals, under the auspices of the Fellowships of Medicine and the Post Graduate Association of London, and also visited clinics at Liverpool, Leeds, Berlin, Paris, and Vienna while abroad. He is a member of the Pierce County Medical Society, the Washington State Medical Association, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Nora Kitts February 7, 1918. His address is 1122 W. R. Rust Building, Tacoma, Washington.

Dooling, Henry C., M.D., F.A.C.P., was born June 23, 1887 in Clayton, New Jersey; attended Temple University, Philadelphia; received the degree of M.D. in 1908 from Medico-Chirurgical, Philadelphia; was intern at the Presbyterian Hospital in Philadelphia for three months, and practiced general medicine at Norwood, Pennsylvania, for nine years. Since July, 1917 he has been in the Medical Corps, U. S. A., and now holds the rank of Major. He entered The Mayo Foundation October 1, 1922 as a fellow in medicine; his services included general diagnosis, six months, and medical hospital service, six months. He left The Mayo Foundation September 22, 1923 to go to the Walter Reed General Hospital as assistant chief of the medical service. He is a member of the American Medical Association, the Association of Military Surgeons, and the American College of Physicians. He married Nellie M. Essler June 1, 1909. His address is Walter Reed General Hospital, Washington, D. C.

Henry C. Dooling

Doolittle, Harold M., M.D., F.A.C.S., was born August 27, 1877 in Elyria, Ohio; received the degree of M.D. from the University of Michigan in 1902; was intern in the Northern Pacific Railway Hospital, Brainerd, Minnesota, from 1902 to 1903, and was house surgeon in this hospital from 1903 to 1904. He entered the Mayo Clinic as a fellow in surgery July 1, 1904, and was intern in St. Mary's Hospital one year. He left the Mayo Clinic July 1, 1905 and established a surgical practice in Dallas, Texas, where he is also professor of surgery and clinical surgery in Baylor University College of Medicine. During the war he was vice-chairman of the Medical Advisory Board in the district of Northern Texas. He is a member of the Northern Texas Medical Association, the Texas Surgical Society (President, 1925), the Southern Medical Association, the American Medical Association, the American College of Surgeons, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Leda Stimson June 4, 1907. His address is The Dallas Medical and Surgical Clinic, 4105 Live Oak Street, Dallas, Texas.

Harold M. Doolittle

Dougherty, John P., B.A., M.A., M.D., was born June 23, 1875 at Newcastle, Nebraska; received the degree of B.A. in 1896 and of M.A. in 1898 from Creighton University, Omaha, Nebraska, and of M.D. from the College of Physicians and Surgeons, University of Illinois, in 1904; was intern at St. Mary's Hospital, Chicago, from 1904 to 1906, and practiced at Wabasha, Minnesota, from 1906 to 1909, and at Sioux City, Iowa, from 1910 to 1917. He entered The Mayo Foundation as a fellow in medicine in September, 1917; his services included pathologic anatomy, one month; general diagnosis, nine months, and roentgenology, three months. He left the Foundation September 1, 1918, and is practicing at Sioux City, Iowa. He is a member of the Sioux Valley Medical Society, the Iowa State Medical Society, the American Medical Association, and the Association of

John P. Dougherty

Resident and Ex-Resident Physicians of the Mayo Clinic. He married Jelta Byrne August 26, 1907. His address is U. B. Building, Sioux City, Iowa.

Douglass, Henry L., M.D., was born March 18, 1891 in Itasca, Texas; received the degree of M.D. from Vanderbilt University, Nashville, Tennessee, in 1914; and was intern at New York Hospital, New York, six months in 1914. He entered The Mayo Foundation as a special student January 1, 1915, and was intern at St. Mary's Hospital until January, 1916; from September, 1916 to June, 1917 he took graduate work at Vanderbilt University to fulfill the requirements for a fellowship on The Mayo Foundation. He entered The Mayo Foundation as a fellow in surgery June 16, 1917; his services included surgery, one year; postoperative care, eight months; general diagnosis, two months, and urology, three months. July 20, 1917 he was commissioned First Lieutenant, Medical Reserve Corps, U. S. A., and was later attached to the B. E. F. as regimental medical officer, and promoted to the rank of Captain. He received his discharge June 1, 1919, and resumed his work at The Mayo Foundation. He left the Foundation October 1, 1919 to become urologist at the clinic of Dr. W. D. Haggard, Nashville, Tennessee. He is a member of the Davidson County Medical Society, the Middle Tennessee Medical Society, the Tennessee State Medical Association, the Upper Cumberland Medical Society, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Dorothy Lindsley June 22, 1921. His address is 340 Lambuth Building, Nashville, Tennessee.

Henry L. Douglass

Bibliography.—1. Tumors of the kidney. Jour. Tenn. Med. Assn., 1921, xiii, 81–88. (With W. D. Haggard.)

2. Tumors of the breast. Jour. Am. Med. Assn., 1923, lxxx, 445–448. (With W. D. Haggard.)

3. Surgical renal tuberculosis. South. Med. Jour., 1923, xvi, 870–876. (With H. D. Haggard.)

Doyle, John B., B.S., M.D., M.S. in Neurology, was born December 16, 1894 in St. Paul, Minnesota; received the degree of B.S. from the University of Minnesota in 1915, of M.D. from Rush Medical College, University of Chicago in 1917, and of M.S. in Neurology from the University of Minnesota in 1923, and was intern in the Cincinnati General Hospital one year. September 25, 1917 he was commissioned First Lieutenant in the Medical Reserve Corps, A. E. F.; was assigned to active duty at the Mayo Clinic for a course of instruction June 22, 1918, remaining until September 28, 1918; was stationed at the Base Hospital, Camp Sherman, from October, 1918 to March, 1919, and at U. S. General Hospital 29, Fort Snelling, Minnesota, from March to August, 1919. He entered The Mayo Foundation August 1, 1919 as a fellow in neurology; his services have included general diagnosis, nineteen months; ophthalmology, six months, and neurology, four years and nine months. He was appointed first assistant in one of the sections on medicine, Mayo Clinic, January 1, 1921, and first assistant in the Section on Neurology October 1, 1921. He is now an associate in the Section on Neurology and an instructor in neurology, The Mayo Foundation, Graduate School, University of Minnesota. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the Minnesota Neurological Society, the Southern Minnesota Medical Association, the American Medical Association, the Central Neuropsychiatric Association, the Osler Medical Historical Society, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Phi Beta Pi, and Alpha Omega Alpha. He married Gretta F. Holahan September 1, 1921. His address is Rochester, Minnesota.

John B. Doyle

Bibliography.—1. Clinical observations of Hodgkin's disease, with special reference to mediastinal involvement. Am. Jour. Med. Sc., 1921, clxii, 516–625. (With W. S. Lemon.)

2. A study of four cases of glossopharyngeal neuralgia. Arch. Neurol. and Psychiat., 1923, ix, 34–46.

3. Glossopharyngeal neuralgia. Med. Clin. N. Amer., 1923, vii, 285–292.

4. Clinical manifestations and treatment of epidemic encephalitis. California and West. Med., 1924, xxii, 558–562.

5. The recognition of psychoneuroses. California and West. Med., 1926, xxiv, 645–651.

Draper, John W., B.S., M.D., was born August 21, 1871 in New York City; received the degree of B.S. from Harvard University,

Cambridge, Massachusetts, in 1895, and of M.D. from New York University Medical College in 1898; was intern in the New York City Hospital and director of the Laboratory of Surgical Research, Columbia University, New York City, and practiced in New York City until 1910. He entered the Mayo Clinic in April, 1910, and was in charge of the surgical research laboratory until September 1, 1912. He is now practicing surgery in New York City, and is professor of clinical surgery at the New York Polyclinic Medical School. He is a member of the Society of Experimental Medicine and Biology, the Academy of Medicine, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Hortense Pray June 12, 1901. His address is 285 Madison Avenue, New York City.

Bibliography.—1. Observations upon a form of disease resulting from certain operations on the duodenum and jejunum. Surg., Gynec., and Obst., 1906, ii, 502–509.
2. Intestinal obstruction: An outline for treatment based upon the cause of death. Am. Jour. Med. Sc., 1909, cxxxvii, 725–739.
3. Death in acute intestinal obstruction and kindred conditions is due to physiologic disturbance. Jour. Am. Med. Assn., 1910, liv, 5–9.
4. Glycuronic acid determination (Tollens) in duodenal obstruction. Proc. Soc. Exper. Biol. and Med., 1911, ix, 28–30. (With F. W. Schultz.)
5. Experimental intestinal obstruction: Report of further physiologic, cystologic, and chemical studies. Jour. Am. Med. Assn., 1911, lvii, 1338–1343.
6. Autolytic excision by a pentagonal compression suture; its physiological, pathological, and surgical significance. Surg., Gynec., and Obst., 1912, xiv, 558–564. (With W. C. MacCarty.)
7. The function of the ureterovesical valve; an experimental study of the feasibility of ureteral meatotomy in human beings. Jour. Am. Med. Assn., 1913, lx, 20–27. (With W. F. Braasch.)
8. Anastalsis and the surgical therapy of the colon. Am. Jour. Med. Sc., 1914, cxlviii, 828–835. (With J. M. Lynch.)
9. Studies in intestinal obstruction; with a report of feeding heterologous jejunal and ileac cells to a human being. Jour. Am. Med. Assn., 1914, lxiii, 1079–1083.
10. Notes on surgical pathology in the dog. Proc. Soc., Exper. Biol. and Med., 1914–1915, xii, 103–106; 151–153. (With W. H. Barber.)
11. Developmental reconstruction of the colon. Med. Rec., 1915, lxxxvii, 918. (With J. M. Lynch.)
12. The infected colon and its surgery. Med. Rec., 1915, lxxxvii, 983–987. (With J. M. Lynch.)
13. Development reconstruction of the colon. Proctologist, 1915, ix, 182–185.
14. Contribution to the surgical physiology of the colon. Ann. Surg., 1915, lxii, 441–450. (With J. M. Lynch and T. W. Lyon.)
15. Developmental reconstruction of the colon, based on surgical physiology. Ann. Surg., 1915, lxi, 166–175. (With J. M. Lynch.)
16. Renal infection, a further experimental study of its relation to impaired ureteric function. Jour. Am. Med. Assn., 1915, lxiv, 205–210. (With W. H. Barber.)
17. Surgical physiology of the colon. Tr. Ann. Gastro-Enterol. Assn., 1915, xviii, 129–141. (With J. M. Lynch.)
18. The protective or esoteric symptoms of the alimentary canal with special reference to acute inflammation of the colon. Virginia Med. Semi-Month., 1915–1916, xx, 601–606. (With J. M. Lynch.)

19. Intestinal obstruction. Jour. Am. Med. Assn., 1916, lxvii, 1080–1082.
20. The surgical treatment of intestinal toxemia. New York State Jour. Med., 1916, xvi, 362–369. (With J. M. Lynch.)
21. A consideration of the intestinal toxemias from the standpoint of physiological surgery. Med. Rec., 1916, xc, 969–972. (With J. M. Lynch.)
22. Developmental reconstruction of colon for chronic multiple arthritis. Woman's Med. Jour., 1917, xxvii, 111.
23. Developmental reconstruction of the colon; animal researches and clinical report of twenty-nine human cases. Ann. Surg., 1918, lxvii, 567–574. Also: Tr. Am. Gastro-Enterol. Assn., 1917, xii, 108–122.
24. Intestinal obstruction, complete and incomplete. Jour. Am. Med. Assn., 1917, lxix, 1768–1772.
25. Acute intestinal obstruction. Med. Rec.. 1918, xciv, 274–276. (With J. M. Lynch.)
26. Intestinal obstruction: continued studies. Jour. Am. Med. Assn., 1918, lxxi, 1634–1636. (With H. B. Eisberg.)
27. Yeasts from the human colon: protocol of laboratory studies as to the pathogenicity. Med. Rec., 1920, xcvii, 693. (With J. M. Lynch.)
28. Intestinal pathology in the functional psychoses; preliminary report of surgical findings, procedures, and results. Med. Rec., 1920, xcvii, 719–725. (With H. A. Cotton and J. M. Lynch.)
29. Preventive surgery. Jour. Med. Soc. New Jersey, 1922, xix, 1–9.
30. Infected colon as related to toxic psychoses. Boston Med. and Surg., Jour., 1922, clxxxvi, 304–307.
31. Oral surgery, a department of gastro-enterology. Med. Rec., 1922, ci, 405–408.
32. Infection of gastro-intestinal tract in relation to systemic disorders. Am. Jour. Med. Sc., 1922, clxiv, 322–329. (With J. Ewing.)
33. Surgical studies in so-called functional psychoses. Virginia Med. Month., 1923, l, 579–583.
34. Clinical studies in migraine and epilepsy. Jour. Florida Med. Assn., 1924, xi, 23–29.
35. Systemic reactions to oral infection. Am. Jour. Med. Sc., 1925, clxix, 429–438. (With R. K. Johnson.)

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Bibliography.—1. The state control of health. Brit. Med. Jour., 1906, ii, 857.
2. Normally there should be no hemorrhage from the placental site at the time of delivery. Am. Jour. Obst., 1907, lvi, 225–230.
3. The blood conservatism of neurotic individuals. New York Med. Jour., 1908, lxxxvii, 593.
4. The abstraction of calcium salts from the mother's blood by the fetus. A course of dental disease in the former. New York Med. Jour., 1908, lxxxvii, 839.
5. Hemorrhage at the time of delivery an important factor in the prevention of a full secretion of milk. Am. Jour. Obst., 1909, lix, 471–473.
6. The vermiform appendix a rudimentary organ in the carnivora. New York Med. Jour., 1909, lxxxix, 956.
7. The abstraction of the calcium salts of the lipoids circulating in the blood for the purpose of the neutralization of the organic acids, the cause of lipemia diabetes mellitus. Med. Rec., 1910, lxxvii, 795.
8. The abstraction of calcium salts from the mother's blood by the fetus a cause of large white kidney in the former. Med. Rec., 1910, lxxviii, 17.
9. The abstraction of calcium salts from the mother by the fetus the cause of fatty infiltration of the liver cells of the former. New York Med. Jour., 1910, xci, 545–546.
10. The abstraction of calcium salts from the mother's blood by the fetus, the cause of puerperal eclampsia in the former. Am. Jour. Obst., 1911, lxiii, 653–656.
11. If the abstraction of calcium salts from the mother's blood by the fetus is the cause of puerperal eclampsia in the former, then the eclamptic mother should not nurse her infant. Am. Jour. Obst., 1911, lxiv, 259–260.
12. The abstraction of calcium salts from the mother's blood by the fetus. the cause of rapid progress of tubercular processes. Am. Jour. Obst., 1913, lxvii, 893–895.
13. The abstraction of calcium salts from the mother by the nursling the cause of the coagulation of the milk in the mammary gland. Am. Jour. Obst., 1913, lxviii, 759.
14. A Gram-negative streptococcus pathogenic for guinea-pigs. New York Med. Jour., 1914, c, 274.
15. A non-cholera vibrio resembling the true cholera vibrio and a pigment-forming vibrio. Jour. Infect. Dis., 1914, xiv, 251–254.
16. Is an angina rather than tonsillitis the precursor of acute rheumatism? Med. Rec., 1916, xc, 1032.
17. A selective medium for the isolation of B. pestis from contaminated plague lesions and observations on the growth of B. pestis on autoclaved nutrient agar. Jour. Med. Res., 1917, xxxvi, 519–532.
18. Is an angina rather than tonsillitis the percursor of acute rheumatism? Woman's Med. Jour., 1919, xxix, 4.
19. A bacteriologic study of the fluid contents of 100 gall-bladders removed at operation. Ann. Surg., 1922, lxxvi, 482–486.
20. Formula for estimating the number of cubic centimeters of standardized bacterial emulsion to make bacterial vaccine of known strength. Jour. Am. Med. Assn., 1923, lxxxi, 929.

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Della G. Drips

Bibliography.—1. The spleen during hibernation. Jour. Exper. Zool., 1917, xxiii, 277–285. (With F. C. Mann.)

2. Studies on the ovary of the spermophile with special reference to the corpus luteum. Anat. Rec., 1918, xiv, 34.

3. Studies on the ovary of the spermophile (Spermophilus citellus tridecemlineatus) with special reference to the corpus luteum. Am. Jour. Anat., 1919, xxv, 117–184.

Dunlap, Harold F., B.S., M.D., was born November 18, 1895 in Duncannon, Pennsylvania; received the degree of B.S. in 1918 and of M.D. in 1920 from Indiana University, Bloomington; was intern at the Louisville City Hospital, Kentucky, from February to May, 1920, and at the Philadelphia General Hospital from May, 1920 to January, 1922. He entered The Mayo Foundation January 1, 1922 as a fellow in medicine; his services have included general diagnosis, two and one-half years, and neurology, eighteen months. He was appointed first assistant in one of the sections on medicine, Mayo Clinic, July 1, 1925, and associate January 1, 1926. He is a member of the Olmsted County Medical Society, the Minnesota State

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Medical Association, the American Medical Association, the Blockley Medical Society (Philadelphia), the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Phi Beta Pi. His address is Rochester, Minnesota.

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Halbert L. Dunn

Bibliography.—1. The growth of the central nervous system in the human fetus as expressed by graphic analysis and empirical formulæ. Jour. Comp. Neurol., 1921, xxxiii, 405–491.
2. The growth of the brain and the spinal cord in the human fetus and its expression by empirical formulæ. Anat. Rec., 1921, xxi, 55.
3. The standardization by empirical formulæ of the data on surface area in man and animals. Anat. Rec., 1922, xxiii, 15–16.
4. The efflux of blood from the carotid artery of the dog and its expression by a general empirical formula. Arch. Int. Med., 1922, xxix, 368–383.
5. Empirical formulæ for the postnatal growth of the human brain and its major divisions. Proc. Soc. Exper. Biol. and Med., 1922–1923, xx, 114–117. (With R. E. Scammon.)
6. The statics of the human arch when subjected to body weight. Mil. Surgeon, 1923, lii, 567–628.
7. A statistical analysis of the causes of palpable lymph glands in the newborn. Am. Jour. Dis. Child., 1923, xxv, 319–337. (With Louis Dunn.)

8. Growth of the gray and white matter of the cerebral hemispheres from the third fetal month to adult life. Anat. Rec., 1923, xxv, 127–128.
9. On the growth of the human cerebellum in early life. Proc. Soc. Exper. Biol. and Med., 1923–1924, xxi, 217–221. (With R. E. Scammon.)
10. Human constitution; clinical anthropometry. Jour. Am. Med. Assn., 1924, lxxxii, 431–434. (With D. Seegal and G. Draper.)
11. Mathematical analysis of data and technic af construction of curves. In Draper, G.: Human constitution: A consideration of its relationship to disease. Philadelphia, W. B. Saunders Company, 1924, 72–87.
12. Studies in human constitution: facial form and disease correlation. Am. Jour. Med. Sc., 1925, clxix, 322–328. (With D. Seegal and G. Draper.)

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Bibliography. -1. Sull' esame röntgenologico del colon ileo-pélvico e del retto. Atti di. Cong. ital. di radiol. med., 1914, i, 162.
2. Contribution à la physicopathologie des nerfs splanchniques, en rapport avec la pathogénie de l'ulcère gastrique. Arch. ital de biol., 1914, lxi, 112–120.
3. Histopathologie de la replantation cérébrale partielle. Arch. ital. de biol., 1914, lxiii, 26–32.
4. Contributo clinico e anatomo-patologico allo studio della tubercolosi della mammella muliebre. Policlinico, sez. chir., 1914, xxi, 319–335.
5. Induzioni e fatti sul trofismo nervoso simpatico. Quaderni di psichiat. e neuro., 1915, N. 6.
6. Istopatologie del reinnesto cerebrale parziale. Policlinico, 1915, xxii, sez. chir., 107–124.
7. Tuberculosis of the tongue. Ann. Surg., 1916, lxiii, 143–154.
8. The trophic element in the origin of gastric ulcer. Surg., Gynec., and Obst., 1916, xxii, 399–406.

9. Tuberculosis of the breast; a report of ten cases. Ann. Surg., 1916, lxiii, 668–671. (With W. C. MacCarty.)
10. Changes in the superior cervical sympathetic ganglia removed for the relief of exophthalmos. Jour. Med. Res., 1916, xxxiv, 273–296. (With L. B. Wilson.)
11. La tubercolosi della lingua; contributo casistico anatomo-clinico. Policlinico, 1916, xxiii, sez. chir., 302–317.
12. Lo streptococco nelle prime fasi della evoluzione delle ferite di guerra. Riforma med., 1918, xxxiv, 1014–1018.
13. Evoluzione delle ferite da proiettili di fucile in confronto con l'evoluzione delle ferite da proiettili di artiglieria. Genova, Papini, 1918.
14. I criteri clinici e batteriologici e la tecnica operativa della sutura primitiva immediata nella ferite di guerra. Gior. di med. mil., 1919, lxvii, 257–295. (With L. Dominici.)
15. Le forme sclero-linfatiche della mammelle. Contributo clinico e anatomo-patologico. Clin. chir., 1919, n. s., i, 225–235.
16. A clinical note on hypertonic salt solution in the treatment of tuberculous abscess. Lancet, 1919, ii, 735.
17. Nuovi indirizzi nella terapia di alcune lesioni tubercolari chirurgiche. Policlinico, 1919, xxvi, sez. prat., 1105–1107.
18. Sulla terapia dei sali di calico nelle tubercolosi-chirurgiche. Policlinico, sez. prat., 1921, xxviii.
19. Trapianti ossei. Pisa, F. Mariotti, 1921, 384 pp.
20. Sull' aneurisma traumatico artero-venoso dei vasi radiali Riforma med., 1922, xxxviii, 873–875.
21. Sul cosi detto "Botriomicoma di Poncet e Dor." Arch. per le sc. med., 1922, xlv, 161–175.
22. Relievi clinici su 540 lesioni tubercolasi chirurgiche. Tecnica e risultati del trattamento dell' ascesso freddo con soluzioni saline ipertoniche. Policlinico, sez. chir., 1923, xxx, 177–190.
23. Sui tumori a cellule giganti delle guaine tendinee. Chir. d. org. di movimento, 1923, vii, 392–402.
24. Tecnica della exeresi completa delle vie linfatische nell' epitelioma del labbro inferiore. Arch. ital. di. chir., 1923, viii, 201–208.
25. Sul sarcoma del retto. Policlinico, sez. chir., 1924, xxxi, 311–323.
26. Su di un tomore complesso della mammella. Arch. ital. di chir., 1924, ix, 526–536.
27. La incisione estetica nella appendicectomia a freddo. La Liguria Med., 1924, No. 2.
28. Su due casi di malattia di Osgood-Schlatter. Radiologia Med., 1924, xi, fasc. ix.
29. La simpatectomia periarteriosa delle piccole arterie dell' arto inferiore. Arch. ital. di chir., 1925, xiii, 688–696.
30. Il problema topografico della simpatectomia periarteriosa. Policlinico, sez. prat., 1925, xxxii, 1345–1349.
31. La simpatectomia peritronculare nelle camalgic recidive a neurectomia. Arch. ital. di chir., 1925.

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Bibliography.—1. The relation of iodine to the parathyroid. Bull. Johns Hopkins Hosp., 1907, xviii, 331. (With A. B. Cecil.)
2. The parathyroid of the horse. Bull. Johns Hopkins Hosp., 1907, xviii, 335–337.
3. Family hematoporphyrinuria and its association with chronic gastro-duodenal dilatation, peculiar fits, and acute polyneuritis; a preliminary report. Jour. Am. Med. Assn., 1912, lix, 718–719. (With L. F. Barker.)
4. A study of the causes of delayed union and non-union in fractures of the long bones. Ann. Surg., 1920, lxxi, 40–46.
5. The treatment of crushed extremities. Am. Jour. Surg., 1920, xxxiv, 69–74.
6. A consideration of results in the treatment of simple fractures. Jour. Med. Soc., New Jersey, 1920, xvii, 291–298.
7. The causes and occurrence of functional scoliosis in college men. Jour. Am. Med. Assn., 1920, lxxv, 1411–1414.
8. Early diagnosis of perforated gastric or duodenal ulcer. Penn. Med. Jour., 1920–1921, xxiv, 307–309.
9. Pott's fracture of the fibula, or fracture-dislocation at the ankle. Am. Jour. Surg., 1921, xxxv, 153–155.
10. Fractures. In: Ochsner, A. J.: Surgical diagnosis and treatment. Philadelphia, Lea & Febiger, 1922, iv, 35–194.
11. Fractures near the ankle. Atlantic Med. Jour., 1923, xxvi, 592–598.
12. The perils of present medical existence. Atlantic Med. Jour., 1923, xxvii, 125–127.
13. Ovarian implantation: the preservation of ovarian function after operation for disease of the pelvic viscera. Surg., Gynec., and Obst., 1924, xxxviii, 394–398.
14. Further results with ovarian implantation. Jour. Am. Med. Assn., 1924, lxxxiii, 674–677.
15. Amputations in industrial surgery. Am. Surg., 1925, lxxxi, 164–190.
16. Subperiosteal hematoma of the femur: report of a case. Tr. Assn. Res. and Ex-Res. Phys. Mayo Clinic, 1925, vi, 173–180.

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George B. Eusterman

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Bibliography.—1. Abdominal pain: Its clinical significance. Collected Papers, Mayo Clinic, 1910, ii, 193–200.

2. Neoplasms of the kidneys. Jour. Minn. Med. Assn., 1911, xxxi, 519–523.
3. Notes on the dyspepsias with special reference to diagnosis. Jour. Missouri State Med. Assn., 1912–1913, ix, 329–332.
4. Incidence and diagnosis of complicating factors in gastric and duodenal lesions (results in 1,800 cases operated upon). Am. Jour. Gastro-enterol., 1913–1914, iii, 111–118.
5. Incidence and diagnostic value of blood or hemorrhage in gastric and intestinal lesions. Clinical and statistical study. St. Paul Med. Jour., 1913, xv, 587–595.
6. Hour-glass stomach and duodenum. Jour. Mich. State Med. Soc., 1914, xiii, 417–422.
7. Chronic gastric disturbances: Differential diagnosis. Journal-Lancet, 1914, xxxiv, 460–463.
8. The essential factors in the diagnosis of chronic gastric and duodenal ulcers. Jour. Am. Med. Assn., 1915, lxv, 1500–1503; also Collected Papers of the Mayo Clinic, 1915, vii, 174–183.
9. Gastric and duodenal ulcer. New York State Jour. Med., 1917, xvii, 88–94.
10. Syphilis of the stomach: A clinical and roentgenological study, with a report of twenty-three cases. Am. Jour. Med. Sc., 1917, cliii, 21–39.
11. Syphilis of the stomach: A report of forty cases in which there were demonstrable lesions and therapeutic cure or improvement. Am. Jour. Syph., 1918, ii, 205–219.
12. Syphilis of the stomach: Report of a case. Symptomatology. Gastric chemistry and the *x*-ray. Diagnostic criteria. Differential diagnosis. Results of treatment. Observations and conclusions based on a study of fifty-five cases. Med. Clin. N. Amer., 1919, iii, 669–680.
13. A clinical study of 83 gastrojejunal ulcers. Diagnosis verified at operation. Minn. Med., 1920, iii, 517–524.
14. Surgical and non-surgical aspects of chronic gastric and duodenal ulcers. Jour. Mich. State Med. Soc., 1921, xx, 3.
15. A case of delayed postoperative obstruction of the proximal loop of the jejunum from adhesions and a description of the attendant phenomena including gastric tetany. Discussion of the discrepancy between clinical and roentgen-ray observations on motor function. Summary. Med. Clin. N. Amer., 1921, v, 395–399.
16. The formation of a chronic penetrating ulcer of the stomach following successful gastrojejunostomy for an obstructing duodenopyloric ulcer; rarity of such a sequel. Med. Clin. N. Amer., 1921, v, 401–409.
17. Diagnostic and therapeutic aspects of late sequelæ of gastric surgery. Observations based on six thousand four hundred operations for chronic gastric and duodenal ulcers. Jour. Amer. Med. Assn., 1921, lxxvii, 1246–1250.
18. Benign tumors of the stomach. Report of twenty-seven cases. Surg., Gynec., and Obst., 1922, xxxiv, 5–15. (With E. G. Senty.)
19. Circumscribed syphilitic ulcer of the stomach; report of a case. Can. Med. Assn. Jour., 1922, xii, 91–94.
20. Toxic nephritis in pyloric and duodenal obstruction. Renal insufficiency complicating gastric tetany. Arch. Int. Med., 1923, xxxii, 425–455. (With G. E. Brown, H. R. Hartman, and L. G. Rowntree.)
21. Gastric lesions simulating cancer. Ann. Clin. Med., 1923, i, 333–334.

22. Recurrent ulcer of the stomach and duodenum: Clinical notes on incidence, diagnosis, and etiology. Minn. Med., 1923, vi, 698–702.
23. Diseases of the gall-bladder in young individuals. Tr. Am. Gastro-Enterol. Assn., 1923, v, 1–4.
24. Diseases of the gall-bladder in the young. Ann. Clin. Med., 1924, ii, 283–285.
25. Certain clinical and pathological aspects of focal infection, with special reference to the teeth and tonsils and the gastro-intestinal tract. Ann. Clin. Med., 1924, iii, 394–401.
26. Practical aspects of certain phases of treatment with special reference to organotherapy and physiotherapy. Ohio State Med. Jour., 1924, xx, 677–680.
27. Spontaneous healing of chronic duodenal and gastrojejunal ulcer. Med. Clin. N. Amer., 1925, viii, 1045–1053.
28. Duodenal ulcer simulating the gastric crises of tabes: report of five cases. South. Med. Jour., 1925, xviii, 319–323.
29. Primary carcinoma of the duodenum: Report of fifteen verified cases. Ann. Surg., 1925, lxxxii, 153–163; 383–388. (With D. M. Berkman and T. S. Swan.)
30. Recurring peptic ulcer. Ann. Clin. Med., 1925, iv, 365–378. (With A. B. Rivers.)
31. Progress in the diagnosis and treatment of gastro-enterologic diseases. Tr. Assn. Res. and Ex-Res. Phys. Mayo Clinic, 1925, vi, 313–318.
32. Treatment following operations for ulcer of the duodenum and stomach. Surg., Gynec., and Obst., 1926, xlii, 161–166.
33. The newer clinical aspects of gastric carcinoma. Radiology, 1926, vi, 409–415.
34. Present status of chronic cholecystic disease and practical aspects of studies in hepatic function. (Abstract.) Bull. New York Acad. Med., 1926, ii, No. 1, 14–20.

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Bibliography.—1. Roentgenographic findings in two hundred and ninety partially edentulous or edentulous mouths. Dental Cosmos, 1921, lxiii, 901–903.
2. Report of roentgenographic and clinical findings in the teeth of nine hundred patients. Jour. Natl. Dental Assn., 1922, xix, 257–262.

3. Impacted teeth and their relationship to chronic systemic disorders. Internat. Jour. Orthodontia, 1922, viii, 441–444.
4. Dental surgery in arthritis. Jour. Natl. Dent. Assn., 1922, ix, 882–883.

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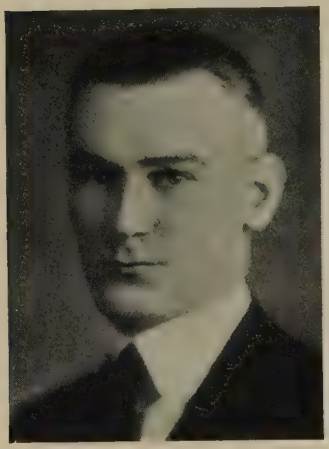

Raymond M. Evans

Bibliography.—1. Gastric and duodenal ulcer. Kentucky Med. Jour., 1923, xxi, 214–222.
2. Subphrenic abscess. Kentucky Med. Jour., 1924, xxii, 340–344.

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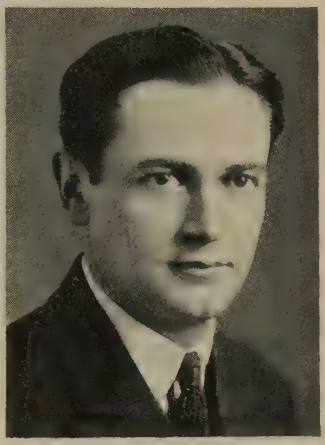

Martin J. Fardy

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Robert C. Farrish

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Bibliography.—1. Some problems in the management of tumors of the urinary bladder. California and West. Med., 1925, xxiii, 1303–1307.
2. Specimen of a vesical tumor with intestinal type of mucosa, apparently of allantoic origin. Tr. Assn. Res. and Ex-Res. Phys. Mayo Clinic, 1925, vi, 237–240.
3. Urethral caruncle. California and West. Med., 1926, xxiv, 500–501.

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Bibliography.—1. Actinomycosis of the tongue. Am. Jour. Med. Sc., 1922, lxiii, 507–517. (With G. B. New.)
2. Cysts of the bursa pharyngea: a report of two cases. Laryngoscope, 1923, xxxiii, 37–41.
3. Actinomycosis of the head and neck: a report of 107 cases. Surg., Gynec., and Obst., 1923, xxxvii, 617–625; also Radium, 1924, ii, 257–271. (With G. B. New.)
4. Treatment of fibromas of the nasopharynx: report of thirty-two cases. Am. Jour. Roentgenol., 1924, xii, 340–343; also Ann. Otol., Rhinol., and Laryngol., 1925, xxxiv, 191–196. (With G. B. New.)

5. Value of the roentgen ray in diagnosis of tumors of the jaw. Jour. Am. Med. Assn., 1924, lxxxiii, 1555–1558; also Dental Sum., 1925, xlv, 570–575. (With G. B. New.)
6. The use of full thickness skin grafts. Minn. Med., 1924, vii, 714–716. (With G. B. New.)
7. Bare radium tubes in the treatment of tumors around the head and neck. Minn. Med., 1926, ix, 13–19.
8. Restoration of the lining of the mouth and nose with full thickness skin grafts. Ann. Otol., Rhinol., and Laryngol., 1926. (In press.)

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Bibliography.—1. A study of microlymphoidocytic leukemia with the report of a case. Arch. Int. Med., 1922, xxix, 168–220.
2. Right diaphragmatic hernia of short esophagus type. Am. Jour. Med. Sc., 1924, clxvii, 672–679. (With H. M. Conner.)
3. The roentgenologic diagnosis of diaphragmatic hernia, with a report of seventeen cases. Radiology, 1924, iii, 26–45. (With R. D. Carman.)
4. The commercial exhibit at Atlantic City. (Editorial.) Radiology, 1925, v, 80–82.

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Bibliography.—1. Malignant tumors in the United States Army, 1917–1919. Mil. Surgeon, 1921, xlviii, 672–676.

2. Chapter in: Collected studies on the pathology of war gas poisoning, by Winternitz, M. C. New Haven, Yale Univ. Press, 1920, 165 pp.

3. Air-borne infection in operating rooms. Tr. Assn. Res. and Ex-Res. Phys. Mayo Clinic, 1925, vi, 211–217.

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Bibliography.—1. An improved method of bleaching pigmented tissues. Arch. Ophth., 1908, xxvii, 561–564. (With T. H. Verhoeff.)
2. The fermentation test in diphtheria. Boston Med. and Surg. Jour., 1909, clx, 652.
3. The differentiation of the diphtheria bacillus from organisms morphologically similar. Arch. Ophth., 1909, xxxviii, 610–622.
4. Epithelioma of the external ear. Collected Papers of the Mayo Clinic, Philadeplhia, Saunders, 1913, v, 584–591.
5. Mikulicz's disease. Journal-Lancet, 1914, xxxiv, 159–161.
6. Epithelioma of the lids. Jour. Am. Med. Assn., 1914, lxiii, 751–755.
7. Evisceration and its supposed relation to sympathetic ophthalmia. Collected Papers of the Mayo Clinic, Philadelphia, Saunders, 1915, vii, 573–578.
8. Choice of methods in the removal of the eyeball. Railway Surg. Jour., 1915–1916, xxii, 30–35. Also Jour. Ophth. and Oto-Laryngol., 1916, x, 1–5.
9. Graduate work in ophthalmology and otolaryngology. Collected Papers of the Mayo Clinic, Philadelphia, Saunders, 1916, viii, 963–966.

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Bibliography.—1. Concerning the excretion of phosphoric acid during experimental acidosis in rabbits. Am. Jour. Physiol., 1907, xviii, 113–122. (With C. L. Alsberg and L. J. Henderson.)

2. Bulbar paralysis in typhoid fever. Boston Med. and Surg. Jour., 1913, clxviii, 957–959.

3. The effects of experimental chronic passive congestion on renal function. Arch. Int. Med., 1913, xi, 121–147. (With L. G. Rowntree and J. T. Geraghty.)

4. The effect of temporary occlusion of renal circulation on renal function. Arch. Int. Med., 1913, xii, 24–36. (With L. G. Rowntree.)

5. Tests for renal function based upon the selective excretory activities of the kidney. Boston Med. and Surg. Jour., 1913, clxix, 374–386. Also, Med. Communicat. Mass. Med. Soc., 1913, xxiv, 147–154.

6. Studies of renal function in renal, cardiorenal, and cardiac diseases. Arch. Int. Med., 1913, xi, 258–287. (With L. G. Rowntree.)

7. The relation between non-protein nitrogen retention and phenolsulphonephthalein excretion in experimental uranium nephritis. Arch. Int. Med., 1913, xii, 245–258. (With C. Frothingham, Jr., O. Folin, and W. Denis.)

8. The value of tests for renal function in early and advanced Bright's disease. Med. Rec., 1914, lxxxv, 682. Also, Am. Jour. Med. Sc., 1914, cxlviii, 330–342.

9. Certain aspects of the medical history of exophthalmic goiter. Boston Med. and Surg. Jour., 1914, clxx, 675–680.

10. The immediate effect of repeated doses of theobromin sodium salicylate and theocin on renal function in acute experimental nephritis. Arch. Int. Med., 1914, xiii, 945–956.
11. A comparison of Bang's micro-method for determining blood sugar with Bertrand's method. Arch. Int. Med., 1914, xiv, 133–142.
12. A case of diabetes insipidus. Arch. Int. Med., 1914, xiv, 706–721.
13. Experimental hyperthyroidism. Am. Jour. Physiol., 1914–15, xxxvi, 363. (With W. B. Cannon and C. A. L. Binger.)
14. Observations on renal function in acute experimental unilateral nephritis. Arch. Int. Med., 1915, xv, 303–328. (With W. C. Quinby.)
15. The relation between amylase retention and excretion and non-protein nitrogen retention in experimental uranium nephritis. Arch. Int. Med., 1915, xv, 524–542.
16. Acetone bodies in the blood in diabetes. Tr. Ass. Am. Phys., 1917, xxxii, 155–158. Discussion, 172–179.
17. Studies of acidosis. IV. The relationship between alkaline reserve and acid excretion. Jour. Biol. Chem., 1917, xxx, 389–400. (With D. D. Van Slyke.)
18. Studies on acidosis. VIII. The determination of hydroxybutyric acid, aceto-acetic acid, and acetone in blood. Jour. Biol. Chem., 1917, xxxii, 495–497. (With D. D. Van Slyke.)
19. Observations on kidney function in diabetes mellitus. Arch. Int. Med., 1917, xx, 809–827.
20. The urea index as a test for kidney function in a war hospital. Jour. Am. Med. Assn., 1918, lxx, 1755–1758.
21. Nephritis in the soldier. Jour. Am. Med. Assn., 1919, lxxiii, 168–170. Abstract Med. Rec., 1919, xcvi, 87–88.
22. Total dietary regulations in the treatment of diabetes. Monogr. Rockefeller Inst. Med. Res., New York, 1919, No. 11.
23. A comparison of medical casualties in British and American troops at a general hospital in France. Am. Jour. Med. Sc., 1919, clviii, 328–335. (With A. Cunningham.) Abstract Jour. Am. Med. Assn., 1919, lxxiii, 786.
24. The determination of hydro-oxybutyric acid, aceto-acetic acid, and acetone in blood. Jour. Biol. Chem., 1919, xxxix, 23. (With D. D. Van Slyke.)
25. Napoleon's camp at Boulogne. Ann. Med. Hist., 1919, ii, 148–156.
26. A study of a case of diabetes mellitus treated by the Allen method. Quart. Jour. Med., 1919, xii, 307–316. (With A. V. Bock.)
27. Trench nephritis at a British Hospital in France. Med. Rec., 1919, xcvi, 527–528; also Tr. Assn. Am. Phys., 1919, xxxiv, 301–304; Mil. Surgeon, 1919, xlv, 80–98.
28. A case of diabetes mellitus and myelogenous leukemia. Jour. Am. Med. Assn., 1920, lxxv, 1331–1332.
29. The phenolsulphonephthalein test and the non-protein nitrogen of the blood in chronic nephritis. Boston Med. and Surg. Jour., 1920, clxxxiii, 247–254.
30. Surgical anesthetics in diabetes mellitus. The danger of operative treatment when necessary in diabetic patients; necessity, if possible, of pre-operative treatment in diabetics; importance and relative merits of methods of anesthesia adopted in these cases; illustrative cases. Med. Clin. N. Amer., 1920, iii, 1107–1125.
31. Observations on glycemia, glycuresis, and water excretion in obesity. Arch. Int. Med., 1921, xxviii, 804–812. (With Carol Beeler.)
32. On the preventability of certain cases of chronic nephritis. Minn. Med., 1921, iv, 611–620.
33. Studies on blood sugar. The total amount of circulating sugar in the blood in diabetes mellitus and other conditions. Jour. Biol. Chem., 1921, xlviii, 313–321.
34. Case I. Malignant diseases of the liver and gallbladder with symptoms of pelvic disease and neurasthenia. Case 2. Chronic dental infection. Case 3. Exophthalmic goiter in a young woman with familial history of diabetes mellitus. Med. Clin. N. Amer., 1921, v, 521–533.

35. The relation of hyperthyroidism to diabetes mellitus. Arch. Int. Med., 1921, xxvii, 304–314.
36. In behalf of the stomach tube. Jour. Am. Med. Assn., 1922, lxxviii, 1446–1450.
37. Surgical anesthesia in relation to diabetes mellitus. Am. Jour. Surg., Anes. Suppl. April, 1922, xxxvi, 46–48.
38. An improved alimentary glucose tolerance test. Jour. Metab. Res., 1922, i, 549–560. (With Carol Beeler, A. W. Bryan, and E. P. Cathcart.)
39. Clinical observations on certain constituents of the bile. Jour. Am. Med. Assn., 1922, lxxix, 2129–2132. (With Martha Aldrich.)
40. Effect of insulin on metabolism of diabetes. Jour. Met. Res., 1922, ii, 753–766. (With W. P. Murphy and S. B. Grant.)
41. Treatment of diabetes mellitus. Med. Clin. N. Amer., 1923, vii, 649–673.
42. Case of intracranial aneurysm. Boston Med. and Surg. Jour., 1924, cxci, 521–524.
43. Insulin as an investment for the patient with diabetes mellitus. Jour. Am. Med. Assn., 1924, lxxxii, 435–438. (With W. P. Murphy.)
44. Cause of death in diabetes mellitus. Am. Jour. Med. Sc., 1924, clxviii, 313–325. (With W. P. Murphy.)
45. Muscular efficiency of patients with diabetes mellitus. Arch. Int. Med., 1924, xxxiv, 402–415.
46. Excretion of organic acids in urine of patients with diabetes mellitus. Arch. Int. Med., 1924, xxxiii, 97–108. (With P. Starr.)
47. Thomas Sydenham, our model practical physician. Boston Med. and Surg. Jour., 1925, cxcii, 171–173.
48. Diagnosis and treatment of diabetes mellitus. Med. Clin. N. Amer., 1925, viii, 1451–1464.
49. Possibilities of insulin in general practice. Boston Med. and Surg. Jour., 1925, cxcii, 519–527.
50. The potentialities of a clinical-pathological conference, with illustrative cases. Journal-Lancet, 1925, xlv, 257–264. (With H. E. Robertson.)
51. Certain tendencies of modern hospital dietaries for normal people. Jour. Am. Dietetic Assn., 1925, i, 9–13.
52. Clinical observations on the effect of insulin. Northwest Med., 1925, xxiv, 368–377.
53. Diabetes, insulin, and pregnancy. Med. and Surg. Jour., 1925, cxciii, 1092–1094. (With W. P. Murphy.)
54. The importance of a routine Wassermann test in private practice. Northwest Med., 1926, xxv, 57–62.

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Bibliography.—1. Recent advances in surgery. Internat. Clin., 1924, ii, 179–190. (With D. C. Balfour.)

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Bibliography.—1. Studies in basal metabolism. Jour. Am. Med. Assn., 1920, lxxv, 515–523. Also: Arch. méd. belges, 1920, lxxiii, 467–493. (With A. M. Snell and L. G. Rowntree.)

2. Picramic acid as a standard in colorimetric determination of nitrogen by Nessler's method. Jour. Lab. and Clin. Med., 1918–1919, iv, 439–442. (With Grete Egerer.)
3. The probable cause for the failure of some sodium tungstate to give a suitable reagent for the determination of uric acid. Proc. Soc. Exper. Biol. and Med., 1919–1920, xvi-xvii, 10–11.
4. Hodgkin's disease and lymphosarcoma. A clinical and statistical study. Jour. Am. Med. Assn., 1923, lxxxi, 925–927. (With A. U. Desjardins.)
5. A comparative study of radiation and surgical treatment for fibromyomata of the uterus. Surg., Gynec., and Obst., 1926, xlii, 245–254.

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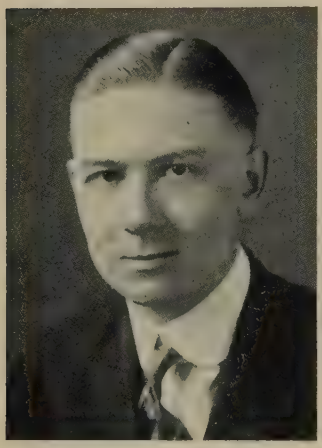

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Bibliography.—1. The George F. Geisinger Memorial Hospital. Mod. Hosp., 1915, v, 145–150.
2. The element of error in abdominal diagnosis. Ann. Surg., 1916, lxiv, 39–47.
3. Goiter, its classification and diagnosis. Pennsylvania Med. Jour., 1917, xx, 207–210.
4. Hospital organization in rural Pennsylvania. Pennsylvania Med. Jour., 1917, xx, 247–252; also Mod. Hosp., 1917, viii, 275.
5. The fixed full-time staff in the organization of the small hospital. Pennsylvania Med. Jour., 1919, xxii, 285–287; also Boston Med. and Surg., Jour., 1919, clxxx, 161–163.
6. The Mayo Clinic and its alumni. Tr. Assn. Res. and Ex-Res. Phys. Mayo Clinic, 1919, i, 20–25.
7. A gastro-enterostomy clamp simplified and improved. Ann. Surg., 1920, lxxi, 668–670.
8. The treatment of goiter. New York Med. Jour., 1920, cxi, 285.
9. Gastro-enterostomy; a consideration of the occasional disappointments that follow. Pennsylvania Med. Jour., 1921, xxiv, 309–316.
10. The thyroid gland and exophthalmic goiter. Bull. Lycoming County Med. Soc., 1922, xi, No. 4. Also Pennsylvania Med. Jour., 1921–1922. xxv, 35–39.
11. Intestinal resection in massive umbilical hernia. Surg., Gynec., and Obst., 1923, xxvi, 263–270.
12. Migraine. Atlantic Med. Jour., 1923, xxvi, 394–396.
13. The surgical treatment of goiter. Atlantic Med Jour., 1923, xxvi, 508–516.
14. Meckel's diverticulum and intestinal obstruction. Jour. Am. Med. Assn., 1923, lxxxi, 99–101.
15. Control of hemorrhage following prostatectomy. Ann. Surg., lxxviii, 802–805.
16. The cancer problem. Atlantic Med. Jour., 1923, xxvii, 11–13.
17. Six years of steady progress. Hosp. Management, 1923, xvi, 78–84.
18. The relationship of goiter to mental disorders. Am. Jour. Med. Sc., 1924, clxvii, 724–735. (With J. A. Jackson.)
19. Acute appendicitis. (Editorial.) Atlantic Med. Jour., 1924, xxviii, 174–175.
20. Local anesthesia in surgery of the neck. Atlantic Med. Jour., 1925, xxviii, 488–492.
21. The treatment of adolescent goiter. (Editorial.) Surg., Gynec., and Obst., 1925, xl, 716–717.
22. Recovery of a patient following removal of a foreign body which had penetrated a cerebellar hemisphere by way of the jugular foramen. Tr. Assn. Res. and Ex-Res. Phys. Mayo Clinic, 1925, vi, 167–172.
23. Ten years of the Geisinger Memorial Hospital. Tr. Assn. Res. and Ex-Res. Phys. Mayo Clinic, 1925, vi, 273–284.

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Bibliography.—1. Dentigerous cysts. Am. Vet. Rev., 1901, xxviii, 561–563.
2. Management of brood mares. Jour. Comp. Med. and Vet. Arch., 1901, xxii, 158–161.
3. Veterinary education. Jour. Comp. Med. and Vet. Arch., 1901, xxii, 172–175; 452–457; 651–654.
4. Anthrax in South Dakota. Breeder's Gaz., 1901, xl, 119.
5. Difficulties encountered in applying the mallein test. Jour. Comp. Med. and Vet. Arch., 1902, xxiii, 49–50.
6. Maladie du coit. Am. Vet. Rev., 1903, xxvii, 755–756.
7. Perforation of the nasal septum in a case of glanders. Jour. McKillip Vet. College Alumni Assn., 1908, ii, 50–51.
8. Unusual cutaneous lesions in two cases of glanders. Jour. McKillip Vet. College Alumni Assn., 1908, ii, 25–26.
9. Resident State Secretary's Report (South Dakota). Proc. Am. Vet. Med. Assn., 1910, 165–169.
10. An educational problem. Am. Vet. Rev., 1911, xxxvii, 621–629.
11. Dourine. Am. Vet. Rev., 1911, xxxviii, 604–614.
12. Equine intelligence. The Horse Rev., 1915, l, 200–202.
13. Ovaro-hysterectomy of the puppy. Am. Jour. Vet. Med., 1918, xiii, 313–317.
14. The lymphatic system. Am. Jour. Vet. Med., 1918, xiii, 387–391.
15. Extra-uterine pregnancy in the mare. The Cornell Veterinarian, 1918, viii, 127–129.
16. Empyema of the chest. Jour. Am. Vet. Med. Assn., 1918, liii, 292–293.
17. The secretory pressure of the liver with special reference to the presence or absence of a gall-bladder. Am. Jour. Physiol., 1918, xlvii, 278–282. (With F. C. Mann.)

18. Eversion of the urinary bladder in a young foal. Cornell Veterinarian, 1920, x, 216–217.
19. The relation of the common bile duct to the pancreatic duct in common domestic and laboratory animals. Jour. Lab. and Clin. Med., 1920, v, 203–206. (With F. C. Mann and S. D. Brimhall.)
20. The extrahepatic biliary tract in common domestic and laboratory animals. Anat. Rec., 1920, xviii, 47–66. (With F. C. Mann and S. D. Brimhall.)
21. Some observations relating to sex determination and the embryology of the uterus. Jour. Am. Vet. Med. Assn., 1921, lx, 46–50.
22. Canine anesthesia in veterinary practice: Morphin, atropin, ether (or chloroform) sequence. Vet. Med., 1923, xviii, 237–240.
23. Equine general anesthesia. Vet. Med., 1924, xix, 498–500.

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Bibliography.—1. The effect of treatment for syphilis on severe anemias. Am. Jour. Med. Sc., 1921, clxii, 633–647. (With J. H. Stokes.)
2. Intermittent duodenal obstruction in children. Med. Clin. N. Amer., 1923, vii, 81–87.

3. Respiratory diseases in children. A review of the literature from July, 1921 to July, 1923, Am. Jour. Dis. Child., 1924. xxviii, 79–96.
4. The use of zinc chloride in gynecology. Am. Jour. Obst., and Gynec., 1925, x, 355–364. (With J. C. Masson.)
5. Prostatic hypertrophy. Can. Med. Assn. Jour., 1925, xv, 1152.

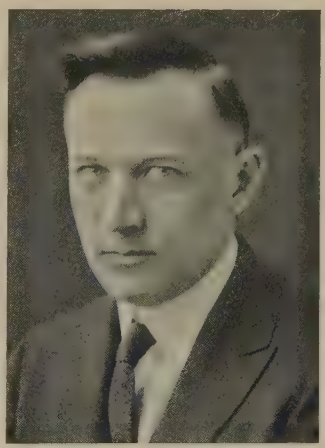
Foulds, Gordon S., M.B., M.S. in Urology, was born November 19, 1892 in Brantford, Ontario; received the degree of M.B. from the University of Toronto, Ontario, in 1914, and of M.S. in Urology from the University of Minnesota in 1924; was intern in the Toronto General Hospital from 1914 to 1915 and was assistant to Dr. Samuel Cummings in Toronto from 1915 to February, 1916, when he received a commission in the Canadian Army Medical Corps, serving both in Canada and in England, with the rank of Captain, later being promoted to Major. He received his discharge in September, 1919, and entered The Mayo Foundation October 20, 1919 as a fellow in surgery, but transferred his major to urology in July, 1922; his services included general diagnosis, eight and one-half months; orthopedic surgery, three months; urology, two years, and operative surgery, one year. He left The Mayo Foundation in September, 1923, and is now urologist at St. Michael's Hospital, Toronto. He is a member of the Osler Medical Historical Society, the American Urological Association, the Academy of Medicine (Toronto), the Ontario Medical Association, the Canadian Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Theta Kappa Psi. His address is 151 Bloor Street W., Toronto, Canada.

Gordon S. Foulds

Bibliography.—1. Prolonged anuria; report of a case. Jour. Am. Med. Assn., 1921, lxxvi, 368–370. (With A. J. Scholl.)
2. The gradual withdrawal of residual urine from the chronically overdistended bladder. Jour. Urol., 1921, v, 453–459.
3. Extension of hypernephroma by way of the renal vein. Jour. Urol., 1922, vii, 463–472. (With L. D. Keyser.)
4. Gradual emptying of the overdistended bladder. Jour. Am. Med. Assn., 1923, lxxxi. 821–823. (With H. C. Bumpus, Jr.)
5. Adenomyomas involving the sigmoid. Surg., Gynec., and Obst., 1923, xxxvii, 648–652. (With E. S. Judd.)
6. Carcinoma of the prostate. Can. Pract. and Rev., 1924, xlix, 516–520.
7. The care of patients suffering from hypertrophy of the prostate. The Canadian Nurse, 1924, xx, 691–692.
8. Postoperative results of nephrolithiasis. Jour. Urol., 1924, xi, 525–537. (With W. F. Braasch.)

9. Squamous-cell tumors of the renal pelvis. Ann. Surg., 1924, lxxx, 594–605. (With A. J. Scholl.)
10. Carcinoma of the kidney in the adult. St. Michael's Hosp. Med. Bull., 1924, i, No. 4, 1–16.
11. A study of histology and mortality in renal tumors. Surg. Clin. N. Amer., 1924, iv, 407–424. (With A. J. Scholl and W. F. Braasch.)
12. A review of urologic surgery. Arch. Surg., 1924, ix, 653–688. (With E. S. Judd, A. J. Scholl, and L. D. Keyser.)
13. A review of urologic surgery. Arch. Surg., 1925, x, 774–812; xi, 152–170, 304–328. (With A. J. Scholl, E. S. Judd, L. D. Keyser, and J. Verbrugge.)
14. Factors responsible for the better results in prostatectomy. St. Michael's Hosp. Bull., 1925, ii, 1.
15. Urinary retention. Can. Med. Assn., Jour., 1925, xv, 1034–1037.
16. Some great artists and medical illustrating. Univ. of Toronto Med. Jour., 1926, iii, 107–111.
17. Hematuria as a symptom. St. Michael's Hosp. Med. Bull., 1926, ii, 51–53.

Fowler, L. Haynes, B.A., M.B., M.D., M.S. in Surgery, was born March 2, 1896 in Binghampton, New York; attended Colgate University, Hamilton, New York, in 1914; received the degree of B.A. in 1916, of M.B. in 1920, of M.D. in 1921, and of M.S. in Surgery in 1924, from the University of Minnesota, and was intern in the Metropolitan Hospital, New York City, from April, 1920 to April, 1921. He entered The Mayo Foundation May 1, 1921 as a fellow in surgery; his services included general diagnosis, eleven months; orthopedic diagnosis, six months; surgical pathology, nine months, and operative surgery, one year. He left The Mayo Foundation July 1, 1924, and is now practicing surgery in Minneapolis. He is a member of the Hennepin County Medical Society, the Minnesota State Medical Association, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Nu Sigma Nu, and Alpha Omega Alpha. He married Rachael Wilson October 10, 1925. His address is 1005 Yates Building, Minneapolis, Minnesota.



L. Haynes Fowler

Bibliography.—1. Postoperative management following gastric operations. Minn. Med., 1924, vii, 730–737. (With T. O. Young.)
2. Malignant epithelial neoplasms, carcinoma, and epithelioma, occurring in persons under twenty-six years of age. Surg., Gynec., and Obst., 1926, xlii, 73–84.

Frawley, John M., B.A., C.M., M.D., was born November 20, 1891 in Sudbury, Ontario; received the degree of B.A. in 1914 from the University of Toronto, and the degrees of C.M. and M.D. in 1919 from McGill University, Montreal; was intern at the Royal Victoria Hospital in Montreal in 1919 to 1920; practiced in western Canada from July, 1920 to September, 1921, and in 1922 interned at the West London Hospital for one month and at the Sick Children's Hospital in Edinburgh for six months. He entered The Mayo Foundation April 1, 1923 as a fellow in pediatrics; his services included surgical pathology, six months; experimental bacteriology, six months, and pediatrics, nine months. He left The Mayo Foundation January 6, 1925, to join the staff of the Burks' Clinic in Fresno, California, and is associate pediatrist at the Fresno General Hospital. He is a member of the Fresno County Medical Society, the California Medical Association, and the American Medical Association. His address is T. W. Patterson Building, Fresno, California.

John M. Frawley

Bibliography.—1. Perineal testicle. Am. Jour. Dis. Child., 1925, xxix, 513–515.
2. Congenital webbing. Am. Jour. Dis. Child., 1925, xxix, 799–805.
3. The Klippel-Feil syndrome. Numerical reduction of cervical vertebræ. Ann. Surg., 1925, lxxxii, 728–734. (With T. P. Noble.)

Frazer, Emmett B., B.S., M.D., M.S. in Surgery, was born January 18, 1893 in Auburn, Alabama; received the degree of B.S. in 1913, was instructor in biology from 1913 to 1914, and received the degree of M.D. in 1918, from the University of Alabama; was instructor in anatomy at the same institution from 1918 to 1919, and received the degree of M.S. in Surgery from the University of Minnesota in 1923. He entered The Mayo Foundation June 18, 1919 as a fellow in surgery; his services included general diagnosis, ten and one-half months; dermatology and syphilology, one month; medical hospital residence, three months; local anesthesia, three months; experimental surgery and pathology, six months (part time); operative

Emmett B. Frazer

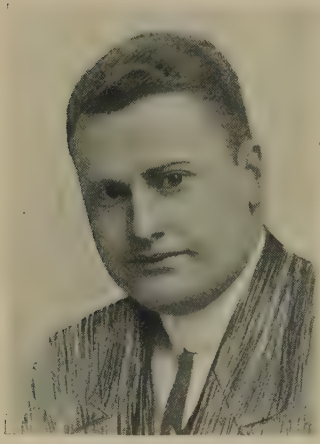
surgery, fifteen months, and urology, three months. From January 23, 1920 to June 1, 1921 he was on leave of absence and practiced in Mobile, Alabama. He left The Mayo Foundation October 25, 1923 to resume practice in Mobile, and is also on the staff of the City Hospital, Mobile. He is a member of the Mobile County Medical Society, the Medical Association of the State of Alabama, the American Urological Association, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Sigma Alpha Epsilon, and Phi Chi. His address is Southern Infirmary, Spring Hill Avenue and Ann Street, Mobile, Alabama.

Bibliography.—1. Transsacral nerve block anesthesia in surgery of the pelvic floor and viscera. Surg., Gynec., and Obst., 1922, xxxv, 801–812. (With W. R. Meeker.)
2. The effect of magnesium sulphate on the secretion of bile. Jour. Am. Med. Assn., 1922, lxxix, 1594–1596.
3. The comparative toxicity of novocain, neocain, procain, and apothesine: the effect of intravascular injections. Jour. Pharmacol. and Exper. Therap., 1923, xxii, 375–392. (With W. R. Meeker.)
4. Actinomycosis of the sigmoid flexure. Surg., Clin. N. Amer., 1924, iv, 357–359. (With D. M. Berkman.)

Freed, Cecil F., M.D., M.S. in Surgery, was born November 30, 1893 in Parkersburg, West Virginia; attended Bethany College in West Virginia; received the degree of M.D. in 1920 from the University of Pennsylvania, and the degree of M.S. in Surgery in 1925 from the University of Minnesota; interned at the Cincinnati General Hospital from July 1, 1920 to July 1, 1921, and was in general practice in Parkersburg, West Virginia, from that time until April 1, 1922, when he entered The Mayo Foundation as a fellow in surgery. His services have included pathologic anatomy, six months; general diagnosis, nine months; regional anesthesia, three months, and operative surgery, two years, one year of which time he held the appointment of first assistant in surgery. He left The Mayo Foundation October 5, 1925, and is now practicing surgery in Parkersburg, West Virginia. He is a member of the West Virginia State Medical Association, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Omega Upsilon Phi. He married Florence H. Evans January 19, 1916. His address is Parkersburg, West Virginia.

Cecil F. Freed

Freligh, Wilfred P., B.A., M.D., was born August 7, 1887 at Stillwater, Minnesota; received the degree of B.A. in 1911, and of M.D. in 1913, from the University of Minnesota, and was intern at the City and County Hospital, St. Paul, from June, 1913 to June, 1914. He entered the Mayo Clinic as a fellow in surgery July 1, 1914; his services included pathologic anatomy, one year; general diagnosis, one year, and surgery, sixteen months. During the war he served as First Lieutenant in the Medical Corps, U. S. A., and was stationed for eight months at Base Hospital 99, A. E. F. From November, 1917, to May, 1918, and from February to December, 1920, he was a member of the surgical staff at the Terre Haute Clinic, Terre Haute, Indiana, and since April 15, 1921, has been on the surgical staff of the Albert Lea Surgical and Medical Clinic, Albert Lea, Minnesota. He is a member of the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. His address is Albert Lea Surgical and Medical Clinic, Albert Lea, Minnesota.



Wilfred P. Freligh

Bibliography.—1. The thymus in adults with especial reference to goiter. Collected Papers of the Mayo Clinic, 1916, viii, 507–512. (With J. M. Blackford.)

Fricke-Davis, Willa M., B.A., M.D., was born August 7, 1885 in Detroit, Michigan; received the degree of B.A. from Columbia University, New York City, in 1906, and of M.D. from Johns Hopkins University, Baltimore, in 1912; was intern one year and assistant resident obstetrician two years, at Johns Hopkins Hospital. She entered The Mayo Foundation August 1, 1915 as a fellow in bacteriology; her services included clinical bacteriology and pathology, three years and one-half month, and surgical pathology, six months (part time). She left The Mayo Foundation September 15, 1918, and is no longer practicing. She is a member of the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. She married Dr. Daniel Davis in 1918. Her address is 1911 N. Street Northwest, Washington, D. C.

Bibliography.—1. The demonstration of immune opsonins for the pleomorphic streptococcus in experimental poliomyelitis in monkeys. Jour. Infect. Dis., 1919, xxiv, 176–180.

Froehlich, John A., M.D., was born July 17, 1882 in Jackson, Winconsin; attended the University of Wisconsin two years; received the degree of M.D. from Marquette University, Milwaukee, in 1908; was intern in the Milwaukee County Hospital one year, and in the Columbia Hospital, Milwaukee, one year, and was engaged in general practice in Princeton, Wisconsin, eight years. He entered The Mayo Foundation January 1, 1918 as a fellow in surgery; his services included postoperative care, four months, pathologic anatomy, three months; clinical diagnosis, six and one-half months; surgery, thirteen months, and roentgenology, five and one-half months. He left The Mayo Foundation September 1, 1920, and is now practicing in Milwaukee, Wisconsin; he is also on the surgical staff of St. Joseph's Hospital and an instructor in medicine at Marquette University. He is a member of Milwaukee County Medical Society, the State Medical Society of Wisconsin, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Irma M. Williams November 27, 1912. His address is Berlin Arcade, 308 North Avenue, Milwaukee, Wisconsin.

John A. Froehlich

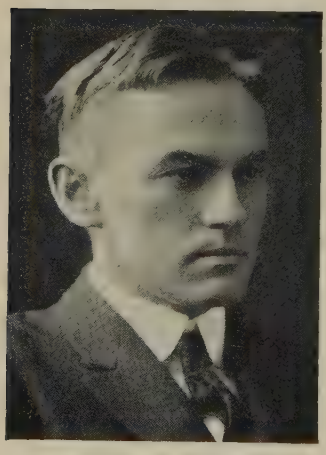
Gaarde, Fred W., B.S., M.D., was born June 20, 1887 in Minden, Nebraska; received the degree of B.S. in 1909 from the University of Chicago, and of M.D. in 1912 from Rush Medical College, University of Chicago; was intern in the City Hospital, Akron, Ohio, for six months, and in the Presbyterian Hospital, Chicago, fifteen months, from 1912 to 1914, and practiced in Chicago from 1913 to 1920. From 1914 to 1917 he did experimental work on focal infections at the Sprague Institute; from 1914 to 1918 was assistant to Dr. Frank Billings, and from 1914 to 1920 was an instructor of medicine in Rush Medical College and an assistant on the attending staff at the Presbyterian Hospital, Chicago. He came to the Mayo Clinic September 1, 1920, as an associate in one of the sections on medicine, and is assistant professor in medicine, The Mayo

Fred W. Gaarde

Foundation, Graduate School, University of Minnesota. During the war he was Major, Medical Corps, A. E. F., in charge of the medical service of Evacuation Hospital 35, and at Camp Hospital 33, Brest, France. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the Chicago Institute of Medicine, the Society of Internal Medicine (Chicago), the Illinois State Medical Society, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Sigma Nu, Nu Sigma Nu, and Sigma Xi. He married Hazel Hollman May 20, 1915. His address is Rochester, Minnesota.

Bibliography.—1. Involvement of the urinary tract as a result of focal infections in children. Jour. Am. Med. Assn., 1915, lxv, 312–314. (With C. G. Grulee.)
2. The treatment of chronic colon bacillus pyelitis by pelvic lavage. Jour. Am. Med. Assn., 1916, lxvi, 2052–2053. (With H. L. Kretschmer.)
3. Pulmonary emphysema. Nelson's Loose-Leaf Living Medicine, iii, 488–494.
4. Clinical differentiation of cases with abnormal *x*-ray shadows in the mediastinum. Med. Clin. N. Amer., 1925, viii, 1235–1246.
5. Diseases of the mediastinum. Chapter in Bedside Diagnosis. Philadelphia, W. B. Saunders Company, 1926. (In press.)
6. Endothelioma of the pleura: report of a case. Radiology, 1925, v, 526–527. (With C. G. Sutherland.)

Gallagher, Bernard J., B.S., M.D., was born June 7, 1889 in Waseca, Minnesota; received the degree of B.S. in 1914, and of M.D. in 1916 from the University of Minnesota, and was intern in the Minneapolis General Hospital from June, 1916 to August, 1917. During the war he was First Lieutenant, Medical Reserve Corps, B. E. F., stationed at Graylingwell War Hospital, Chichester, England, for two months in 1917, later serving in France and was taken prisoner of war in Germany. He entered The Mayo Foundation May 1, 1919 as a fellow in surgery; his services included postoperative treatment, three months; general diagnosis, eleven months; surgery, six months, and roentgenology, two months. He left The Mayo Foundation March 1, 1921, to practice in Waseca, Minnesota. He is a member of the Waseca County Medical Society, the Southern Minnesota Medical Association, the Minnesota State Medical Association, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Margaret Manahan April 12, 1921. His address is Waseca, Minnesota.



Bernard J. Gallagher

Bibliography.—1. Myositis ossificans. Jour. Am. Med. Assn., 1923, lxxxi, 749.
2. Mistaken diagnoses of acute appendicitis. Minn. Med., 1926, ix, 79–81.

Gardner, Boyd S., D.D.S., was born October 27, 1880 in Marcellus, Michigan; received the degree of D.D.S. from the University of Michigan in 1903; practiced dentistry in Dowagiac, Michigan, from 1903 to 1908, in Gary, Indiana, from 1908 to 1912, in the Laboratory of Surgical Technique of the Chicago Graduate School of Medicine from 1914 to 1918, and in St. Louis, Missouri, during 1918. He came to the Mayo Clinic October 1, 1918, as head of the Section on Dental Surgery. He is associate professor of dental surgery, The Mayo Foundation, Graduate School, University of Minnesota. He is a member of the Southeastern Minnesota Dental Association, the Olmsted County Dental Association, the Minnesota State Dental Association, the American Dental Association, the American Society of Oral Surgeons and Exodontists (President, 1924–1925), Delta Sigma Delta, and an associate member of the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Edna M. Baxter June 18, 1903. His address is Rochester, Minnesota.

Boyd S. Gardner

Bibliography.—1. Retracting and suturing of soft tissues with regard to extraction of the impacted lower third molar. Dental Cosmos, 1919, lxi, 1092.
2. Roentgenology in diseases of teeth. Am. Jour. Roentgenol., 1920, vii, 587–588.
3. The use of the chisel and mallet in the extraction of teeth. Internat. Jour. Orthod. and Oral Surg., 1921, vii, 145–151.
4. The value of dental examination in general medicine. Ann. Clin. Med., 1922, i, 59.
5. The examination of teeth in group medicine. Minn. Med., 1922, v, 356–359.
6. Fragment of denture in bronchus. Dental Cosmos, 1922, lxiv, 760.
7. Preparation of the mouth for the prosthetist from the surgical standpoint. Jour. Am. Dental Assn., 1923, x, 64–66.
8. Further considerations of the use of the chisel in the extraction of teeth with special reference to the retraction of soft tissue. Jour. Am. Dental Assn., 1923, x, 254–257.
9. The demonstration of unerupted Hutchinson's teeth by the roentgen ray. Jour. Am. Med. Assn., 1923, lxxx, 28–29. (With J. H. Stokes.)
10. The *x*-ray as a means of safeguarding the antrum of Highmore during extraction of teeth. Radiology, 1924, iii, 507–508.
11. Postoperative *x*-ray examination in dentistry. Radiology, 1924, iii, 74–75; also Dental Sum., 1924, xliv, 870–872.
12. Extraction of teeth, with special reference to coöperation between exodontist and general practitioner. Jour. Am. Dental Assn., 1924, xi, 732–734.
13. A method of localizing roots of teeth, residual granulomas or foreign bodies. Radiology 1924, iii, 254–255.

14. The relation of the roentgen ray to the newer methods of extraction. Radiology, 1925, v, 73–74.
15. Extraction of teeth: amount of surgery feasible at one time, and treatment in acute cases. Dental Cosmos, 1925, lxvii, 661–663.
16. Safeguarding the patient and *x*-ray technic from infection in radiodontia. Radiology, 1926, v, 169.

Gardner, William M., D.D.S., was born March 22, 1899 in St. Paul, Minnesota, and received the degree of D.D.S. from the University of Minnesota in 1921. He entered The Mayo Foundation July 1, 1921 as a special student in dental surgery, and left the Foundation June 16, 1923. He has since been resident dentist at the Trudeau Sanatorium. He is a member of the American Dental Society and an associate member of the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. His address is Trudeau Sanatorium, Saranac Lake, New York.

William M. Gardner

Garvin, John D., B.A., M.D., was born December 9, 1893 in Old Concord, Pennsylvania; attended the University of Pittsburgh from 1912 to 1915, Yale University from 1915 to 1916, receiving the degree of B.A., and received the degree of M.D. in 1921 from the University of Pittsburgh; was intern at the Allegheny General Hospital, Pittsburgh, from 1921 to 1922, and entered The Mayo Foundation July 17, 1922 as a fellow in medicine. His services included general diagnosis, twenty-one months; medical hospital service, nine months; roentgenology, nine months, and proctology, three months. He left the Foundation July 1, 1926 for Pittsburgh, to practice gastro-enterology and gastro-intestinal roentgenology. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the American Medical Association, the Association of

John D. Garvin

Resident and Ex-Resident Physicians of the Mayo Clinic, Sigma Alpha Epsilon, and Nu Sigma Nu. His address is 5004 Jenkins Arcade Building, Pittsburgh, Pennsylvania.

Bibliography.—1. The therapeutic use of germanium dioxid in secondary anemia. Minn. Med., 1924, vii, 409–413.
2. The Fouchet test in cholecystitis. Jour. Am. Med. Assn., 1925, lxxxiv, 492–493.
3. Metastasis to the bones from carcinoma of the breast: a roentgenologic study. Radiology, 1925, v, 486–489. (With H. W. Meyerding and R. D. Carman.)
4. Obesity and hypertension. Jour. Clin. Investigation. (In press.)

Gaunt, Frank P., B.A., M.D., was born October 7, 1880 in St. Louis; received the degree of B.A. from the University of Missouri in 1906, and of M.D. from Harvard University, Cambridge, in 1911; was surgical intern in the Massachusetts General Hospital, Boston, from July, 1911, to February, 1913; surgeon at the Nanking University Medical School, and visiting surgeon at the Union Hospital, Nanking, China, from 1913 to 1915, and at the Wuhu General Hospital, Wuhu, China, from 1915 to 1918. He entered The Mayo Foundation August 1, 1918 as a fellow in surgery; his services included medical hospital residence, three months; general diagnosis, six months; surgery, seven and one-half months, and ophthalmology, four and one-half months. He left The Mayo Foundation April 1, 1920 and was surgeon and general superintendent at the Wuhu General Hospital until February, 1925. In April, 1926 he became medical director at the Emergency Hospital, Milwaukee, Wisconsin. He is a member of the American Medical Association and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Mary E. Moore August 19, 1913. His address is Emergency Hospital, Milwaukee, Wisconsin.

Frank P. Gaunt

Gauss, Julius H. P., B.S., M.D., was born January 15, 1872 in Cottleville, Missouri; received the degree of B.S. from the University of Chicago in 1898, and of M.D. from Rush Medical College, University of Chicago, in 1903; was intern in the Michael Reese Hospital, Chicago, from 1904 to 1906; practiced medicine in Chicago six years, being on the staff of Alexian Brothers' Hospital from 1908 to 1912, and practiced in Lewiston, Montana, from 1912 to 1917. He entered The Mayo Foundation November 1, 1917 as a fellow in medicine; his services included neurology, six months; general diagnosis, one year; urology, three months; pathologic anatomy, three months; roentgenology, seven months, and dermatology, four and one-half months. He left The Mayo Foundation November 1, 1920, to join the staff of the Attix Clinic, Lewiston, Montana, where he remained until January, 1924; he then went to Indianapolis to enter general practice in medicine. He is a member of the Indianapolis Medical Society, the Indiana State Medical Association, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Jessie S. Beckman October 28, 1920. His address is 403 Medical Arts Building, Indianapolis, Indiana.

Julius H. P. Gauss

Bibliography.—1. The diagnosis of gastric carcinoma, with special reference to the roentgenology. Journal-Lancet, 1920, xl, 576–579.

2. The diagnosis of gastric carcinoma. Cincinnati Jour. Med., 1925, vi, 405–408.

Gay, J. Gaston, B.A., M.D., was born October 14, 1898 in Atlanta, Georgia; received the degree of B.A. in 1919 from the University of Georgia, Athens, and of M.D. in 1923 from Johns Hopkins University, Baltimore, and was intern at the Johns Hopkins Hospital from September, 1923, to September, 1924. He entered The Mayo Foundation October 15, 1924 as a fellow in surgery; his services thus far have included medical hospital service, five and one-half months; general diagnosis, six months, and operative surgery, three months. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, The Pithotomy Club (Baltimore), and Chi Phi. His address is Rochester, Minnesota.

J. Gaston Gay

Giffin, Herbert Z., B.S., M.D., was born October 25, 1878 in Kirkwood, New Jersey; received the degree of B.S. from Princeton University, Princeton, New Jersey, in 1900, and of M.D. from Johns Hopkins University, Baltimore, in 1904; was intern at Johns Hopkins Hospital, Baltimore, from 1904 to 1905, and at the Children's Hospital, Philadelphia, from 1905 to 1906. He came to the Mayo Clinic July 4, 1906, as head of a section in the Division of Medicine. He is associate professor of medicine, The Mayo Foundation, Graduate School, University of Minnesota. He is a member of the Olmsted County Medical Society, the Southern Minnesota Medical Association, the Minnesota State Medical Association, the Northwestern Pediatrics Society, the Central Interurban Clinical Club, the American Association for the Advancement of Science, the Association of American Physicians, the American Society for Clinical Investigation, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Phi Rho Sigma, and Sigma Xi. He married Mary E. Nace August 31, 1906. His address is Rochester, Minnesota.

Herbert Z. Giffin

Bibliography.—1. Acquired diverticulitis of the large intestine. Surg., Gynec., and Obst., 1907, v, 8–15. (With W. J. Mayo and L. B. Wilson.)
2. Some points in the physical examination. Jour. Minn. State Med. Assn., 1908, xxviii, 369–371.
3. A case of carcinoma on diverticulitis of the sigmoid. Am. Jour. Med. Sc., 1909, cxxxviii, 661–666. (With L. B. Wilson.)
4. The examination of the nose and throat in relation to general diagnosis: Results in asthma following nasal operation. Boston Med. and Surg. Jour., 1911, clxiv, 228–230.
5. Asthma and tuberculosis. Am. Jour. Med. Sc., 1911, cxlii, 869–874.
6. Diverticulitis of the rectum: a report of two cases operated upon, one of them with carcinomatous degeneration. Ann. Surg., 1911, liii, 533–537.
7. The diagnosis of diaphragmatic hernia. Ann. Surg., 1912, lv, 388–399.
8. The diagnosis of diverticulitis of the large bowel: a clinical review of twenty-seven cases. Jour. Am. Med. Assn., 1912, lix, 864–866.
9. Sacrococcygeal sinus (postanal dermoid): a review of thirty-one cases. Arch. Diagn., 1912, v, 135–142. (With A. Archibald.)
10. Clinical observations concerning twenty-seven cases of splenectomy. Am. Jour. Med. Sc., 1913, cxlv, 781–795.
11. The diagnosis of diseases associated with enlargement of the spleen. Journal-Lancet, 1913, xxxii, 97–100.
12. Clinical notes on patients from the middle northwest infected with Entamebas. Jour. Am. Med. Assn., 1913, lxi, 675–678.
13. Luetic mediastinitis; a report of five cases. Journal-Lancet, 1914, xxxiv, 183–185.
14. Fundamental considerations in the differentiation of gastric neurosis from organic abdominal disease. Arch. Diagn., 1914, vii, 111–120.

15. Clinical and radiologic findings in pulmonary tuberculosis; the value of a co-operative diagnosis. Journal-Lancet, 1915, xxxv, 223–229. (With W. D. Shelden.)
16. Clinical notes on splenectomy. Ann. Surg., 1915, lxii, 166–171; also, Tr. Am. Surg. Assn., 1915, xxxiii, 298–306.
17. Splenectomy for splenic anemia in childhood and for the splenic anemia of infancy. Ann. Surg., 1915, lxii, 679–687.
18. The treatment by splenectomy of splenomegaly with anemia associated with syphilis. Am. Jour. Med. Sc., 1916, clii, 5–11.
19. A report on the treatment of pernicious anemia by transfusion and splenectomy. Jour. Am. Med. Assn., 1917, lxviii, 429–432; also, Tr. Assn. Am. Phys., 1916, xxxi, 233–242.
20. Hemolytic jaundice; a review of seventeen cases. Surg., Gynec., and Obst., 1917, xxv, 152–161.
21. Observations on the treatment of myelocytic leukemia by radium. Boston Med. and Surg. Jour., 1917, clxxvii, 686–691; also, Tr. Assn. Am. Phys., 1917, xxxii, 32–50.
22. The estimation of urobilin and urobilinogen in the duodenal contents. Am. Jour. Med. Sc., 1918, clv, 562–579. (With A. H. Sanford and T. L. Szlapka.)
23. Splenectomy following radium treatment for myelocytic leukemia. Med. Rec., 1918, xciv, 1020–1023; also, Tr. Assn. Am. Phys., 1918, xxxiii, 59–66.
24. Clinical observations concerning the fragility of erythrocytes. Jour. Lab. and Clin. Med., 1919, iv, 465–478. (With A. H. Sanford.)
25. Persistent eosinophilia with hyperleukocytosis and splenomegaly. Am. Jour. Med. Sc., 1919, clviii, 618–629; also, Tr. Assn. Am. Phys., 1919, xxxiv, 41–54.
26. Tuberculosis of the spleen. Med. Clin. N. Amer., 1919, iii, 765–771.
27. The relationship of the anemias to life insurance. New York Med. Jour., 1920, cxii, 358–361.
28. The treatment of pernicious anemia by splenectomy. Jour. Am. Med. Assn., 1921, lxxvi, 290–295. (With T. L. Szlapka.)
29. Present status of splenectomy as a therapeutic measure. Minn. Med., 1921, iv, 132–138.
30. Clinical lecture on diseases of the blood. Ann. Clin. Med., 1922, i, 151–154.
31. Hemoglobinuria in hemolytic jaundice. Arch. Int. Med., 1923, xxxi, 573–578; also, Tr. Assn. Am. Phys., 1922, xxxvii, 452–460.
32. The diseases which may be associated with pernicious anemia. Minn. Med., 1923, vi, 13–16. (With J. P. Bowler.)
33. Hemorrhagic purpura. Med. Clin. N. Amer., 1923, vii, 241–248. (With J. K. Holloway.)
34. Studies of capillaries and blood volume in polycythemia vera. Am. Jour. Med. Sc., 1923, clxvi, 489–502. (With G. E. Brown.)
35. The amino-acid nitrogen in the blood and its possible relation to the elevation of the metabolism in myelogenous leukemia. Jour. Biol. Chem., 1923, lv, xxiii–xxiv. (With W. M. Boothby and Kathleen Sandiford.)
36. A review of a group of professional blood donors. Jour. Am. Med. Assn., 1924, lxxxi, 532–534. (With S. F. Haines.)
37. Pernicious anemia, following ileostomy. Jour. Am. Med. Assn., 1925, lxxxv, 17–20. (With C. F. Dixon and J. G. Burns.)
38. Four cases of hemorrhagic purpura with splenectomy. Med. Clin. N. Amer., 1925, viii, 1153–1161.
39. Splenectomy in cases of purpura hemorrhagica. Minn. Med., 1925, viii, 207–214.
40. A review of twenty-eight cases of purpura hæmorrhagica with splenectomy. Am. Jour. Med. Sc., 1925, clxx, 186–204. (With J. K. Holloway.)
41. Recent progress in our knowledge of diseases of the blood. Tr. Assn. Res. and Ex-Res. Phys. Mayo Clinic, 1925, vi, 309–311.
42. Studies of the vascular changes in cases of polycythemia vera. Am. Jour. Med. Sc., 1926, clxxi, 157–168. (With G. E. Brown.)

Gilliam, Randolph M., M.D., was born October 27, 1895 at Walnut Lawn, Albemarle County, Virginia; attended William and Mary College in Williamsburg, Virginia, for one year; received the degree of M.D. in 1919 from the University of Virginia, Charlottesville, Virginia; interned at Kings County Hospital in Brooklyn, New York, and at St. Joseph's Infirmary in Houston, Texas. For six months during the war he served as assistant surgeon with the United States Public Health Service in Base Hospital 61, Fox Hill, Staten Island, and for one year was enlisted in the Medical Officers' Reserve Corps. He entered The Mayo Foundation July 1, 1922 as a fellow in surgery, his services included postoperative treatment, three months; general diagnosis, six months; surgical pathology, three months, and operative surgery, eleven months. For one month in the summer of 1923 he was on leave of absence at the Grady Hospital in Atlanta, Georgia. He left The Mayo Foundation July 1, 1924, practiced for one year in Knoxville, Tennessee, and for one year in Newport News, Virginia. He is now Surgeon for the Maryland Casualty Company in Chicago. He is a member of the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Kappa Sigma, and Nu Sigma Nu. He married Frances G. McLaine September 8, 1925. His address is 175 West Jackson Boulevard, Chicago, Illinois.

Randolph M. Gilliam

Giordano, Alfred S., B.S., M.D., M.S. in Pathology, was born February 3, 1893 in Avellino, Italy; received the degree of B.S. in 1918, and of M.D. in 1920, from Syracuse University, New York, and of M.S. in Pathology from the University of Minnesota in 1922, and was intern at the Syracuse University Hospital from 1919 to 1920. He entered The Mayo Foundation July 5, 1920 as a fellow in pathology; his services included surgical pathology, nine months; pathologic anatomy, eighteen months; experimental surgery and pathology and experimental bacteriology (part time), two years, and clinical pathology, three months. He left The Mayo Foundation in December, 1922, to become head of the South Bend Medical Laboratory,

Alfred S. Giordano

South Bend, Indiana. He is a member of the St. Joseph County Medical Society, the Indiana State Medical Association, the American Association of Pathologists and Bacteriologists, the American Society of Clinical Pathologists, the American Medical Association, the Osler Medical Historical Society, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and is a diplomate of the National Board of Medical Examiners. He married Dr. Alice Gracy August 28, 1923. His address is 604 North Main Street, South Bend, Indiana.

Bibliography.—1. Studies in postmortem bacteriology: Value and importance of cultures made postmortem. Jour. Lab. and Clin. Med., 1922, vii, 538–546. (With A. R. Barnes.)
2. Metastatic carcinoma from the prostate occurring in the ureteropelvic junction: report of a case. Jour. Urol., 1922, viii, 445–450. (With H. C. Bumpus, Jr.)
3. The bile factor in pancreatitis. Arch. Surg., 1923, vi, 1–30; abstract. Proc. Soc. Exper. Biol. and Med., 1922, xix, 353–355. (With F. C. Mann.)
4. A histologic study of the effect of ligation of the thyroid vessels in exophthalmic goiter. Surg., Gynec., and Obst., 1923, xxxvi, 75–80. (With H. D. Caylor.)
5. Frequency of thymic hyperplasia in toxic and non-toxic goiters. Jour. Indiana Med. Assn., 1923, xvi, 362–366.
6. Iodine in the treatment of exophthalmic goiter. Histologic changes observed in the thyroid gland. Jour. Indiana State Med. Assn., 1926, xix, 63–65.

Gipner, John F., A.B., M.D., M.S. in Ophthalmology, was born November 20, 1896 in Niles, Michigan; received the degree of A.B. in 1918, and of M.D. in 1921, from the University of Michigan, and of M.S. in Ophthalmology in 1925 from the University of Minnesota; interned at the Harper Hospital, Detroit, from July, 1921 to July, 1922, and was physician at Les Cheneaux Club, Mackinac Island, Michigan, for three months before entering The Mayo Foundation, October 1, 1922, as a fellow in ophthalmology. His services included anatomy at the University of Minnesota Medical School, six months, and ophthalmology, two years and nine months at The Mayo Foundation. He was appointed first assistant in the Section on Ophthalmology October 1, 1925. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Gamma Alpha, and Alpha Omega Alpha. His address is Rochester, Minnesota.

John F. Gipner

Bibliography.—1. Mucocele of the frontal sinus simulating orbital neoplasm. Surg. Clin. N. Amer., 1925, v, 881–886.
2. The ophthalmologic findings in cases of multiple sclerosis: a study of 100 cases. Med. Clin. N. Amer., 1925, viii, 1227–1234.
3. Coloboma of the iris, choroid, and optic disk, with detachment of the retina. Am. Jour. Ophth., 1925, viii, 694–697. (With H. P. Wagener.)

Godberson, Herman H., D.D.S., was born September 18, 1897 in Odebolt, Iowa, and received the degree of D.D.S. from Creighton University, Omaha, Nebraska, in 1921. He entered The Mayo Foundation July 7, 1921 as a special student in dental surgery, and remained until July, 1923, when he entered private practice in dentistry in Northfield, Minnesota. He married Myrtle Gamber June 16, 1920. His address is Northfield National Bank Building, Northfield, Minnesota.

Herman H. Godberson

Goeckerman, William H., M.D., was born June 17, 1884 in Hanover, Germany; attended Concordia College, Milwaukee, Wisconsin, from 1897 to 1902, and received the degree of M.D. from the Wisconsin College of Physicians and Surgeons, Milwaukee, in 1906; was intern in the Milwaukee County Hospital, Milwaukee, from June, 1906 to June, 1907, and in the Milwaukee Hospital for the Insane from June, 1907 to October, 1910, and practiced medicine in Milwaukee from April, 1911 to September, 1917. He came to the Mayo Clinic September 1, 1917, as first assistant in the Section on Dermatology and Syphilology. January 1, 1921 he was appointed associate. He is assistant professor in dermatology and syphilology, The Mayo Foundation, Graduate School, University of Minnesota. He is a member of the Olmsted County Medical Society, the Southern Minnesota Medical

William H. Goeckerman

Association, the Minnesota State Medical Association, the Minnesota Dermatological Association, the Chicago Dermatological Association, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Phi Delta. He married Alma Sieglaff January 26. 1914. She died February 24, 1924. His address is Rochester, Minnesota.

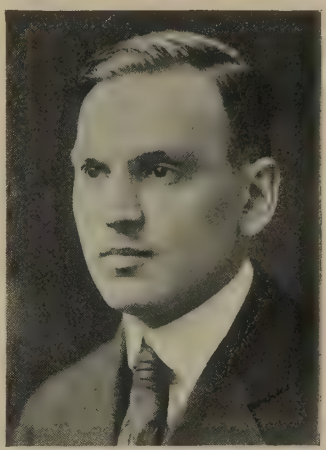
Bibliography.—1. The diagnostic value of lowered bone conduction in syphilis. Am. Jour. Syph., 1919, iii, 240–247. (With R. A. Barlow and J. H. Stokes.)
2. Congenital ectodermal defect, with report of a case. Arch. Dermat. and Syph., 1920, i, 394–412.
3. Is lupus erythematosus discoides chronicus due to tuberculosis? Arch. Dermat. and Syphil., 1921, iii, 788–801.
4. A peculiar discoloration of the skin probably resulting from mercurial compounds (calomel) in proprietary face cream. Jour. Am. Med. Assn., 1922, lxxix, 605–607.
5. Lupus erythematosus as a systemic disease. Jour. Am. Med. Assn., 1923, lxxx, 542–547.
6. The treatment of lupus erythematosus by filtered *x*-ray to the gland bearing regions of the body. Med. Jour. and Rec., 1924, cxx, 530–533.
7. The effect of surgical trauma in patients with syphilis, with special reference to healing of the postoperative wound. Surg., Gynec., and Obst., 1925, xl, 77–83.
8. The cure of syphilis. Med. Clin. N. Amer., 1925, viii, 1215–1220.
9. A peculiar discoloration of the skin. Supplementary note. Jour. Am. Med. Assn., 1925, lxxxiv, 506–507.
10. The treatment of psoriasis. Northwest Med., 1925, xxiv, 229–231.
11. The itching skin a symptom of systemic disease. Med. Jour. and Rec., 1925, cxxii, 83–85.
12. Recent advances in the treatment of syphilis. Minn. Med., 1925, viii, 740–744.
13. A preliminary report on the treatment of neurosyphilis by malaria. Arch. Dermat. and Syph., 1926, xiii, 301–320. (With P. A. O'Leary and S. T. Parker.)
14. Fordyce's disease of the penis: report of a case. Arch. Dermat. and Syph., 1926, xiv, 50–52.

Goehring, Carl, B.S., M.D., was born March 17, 1890 in Grand Island, Nebraska; received the degree of B.S. and of M.D. in 1915 from the University of Michigan, and was intern at St. Francis Hospital, Pittsburgh, from 1915 to 1916. He served in various capacities during the war; he was First Lieutenant in the Medical Reserve Corps, U. S. A., from 1916 to 1917; First Lieutenant and later Captain, in charge of the laboratories at Fort Benjamin Harrison from October, 1917 to August, 1918; and Captain in the Medical Corps, A. E. F., serving as battalion surgeon in France from September, 1918 to July, 1919. He was assistant pathologist at St. Francis Hospital, Pittsburgh, one year; was resident pathologist and bacteriologist at the

Carl Goehring

Mercy Hospital, Pittsburgh, one year; held a fellowship in pathology at the University of Pittsburgh for two months, and was demonstrator in pathology and bacteriology at the same institution from 1916 to 1917, and again from 1919 to 1920. He entered The Mayo Foundation September 15, 1921 as a fellow in surgery; his services included postoperative treatment, two weeks; general diagnosis, one year; surgical pathology, six months; orthopedic surgery, three months; operative surgery, three months, and neurologic surgery, three months. He left The Mayo Foundation December 1, 1923, and is now associated in practice with Dr. Cranmer in Steubenville, Ohio. He is a member of Nu Sigma Nu. He married Eliza E. Cranmer June 18, 1921. His address is Steubenville, Ohio.

Goodwin, Andrew J., M.D., was born October 5, 1890 in Wheeling, West Virginia; received the degree of M.D. from the University of Pennsylvania in 1915; was intern in the Western Pennsylvania Hospital, Pittsburgh, from July, 1915 to August, 1916, and was assistant medical advisor at Cornell University, Ithaca, New York, from 1916 to 1917. He entered The Mayo Foundation June 18, 1917 as a fellow in surgery; his services included dermatology and syphilology, one and one-half months; general diagnosis, fourteen months; postoperative care, one month; pathologic anatomy, six months; obstetrics, six months (Medical School, Minneapolis); surgery, six months, and surgical pathology, three months. From August, 1917 to October, 1919 he served in the Medical Corps. He left The Mayo Foundation October 1, 1922 to practice in Wheeling, West Virginia. He is a member of the Association of Resident and Ex-Resident Physicians of the Mayo Clinic and a diplomate of the National Board of Medical Examiners. His address is 75 Twelfth Street, Wheeling, West Virginia.



Andrew J. Goodwin

Gorder, Arne C., B.S., M.S., M.D., was born January 18, 1900 in La Crosse, Wisconsin; received the degree of B.S. in 1920, and of M.S. in 1921, from the University of Wisconsin, Madison, and of M.D. in 1924 from Rush Medical College, Chicago; was intern at the Evanston Hospital from April, 1923 to April, 1924, and an instructor in the Department of Pharmacology at the University of Wisconsin from June, 1920 to June, 1921. He entered The Mayo Foundation October 1, 1924 as a fellow in surgery; his services thus far have included radium therapy, three months; orthopedic surgery, three months, and general diagnosis, nine months. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, Phi Beta Pi, and Sigma Sigma (Wisconsin). His address is Rochester, Minnesota.

Arne C. Gorder

Goss, Harold L., B.S., M.D., M.S. in Ophthalmology, was born July 2, 1890 in Neillsville, Wisconsin; received the degree of B.S. in 1914, of M.D. in 1917, and of M.S. in Ophthalmology in 1922 from the University of Minnesota; was intern in the Northwestern Hospital, Minneapolis, from June, 1916 to June, 1917, and in the Minneapolis City Hospital from June to September, 1917; served as Captain in the roentgenologic and eye, ear, nose, and throat sections of the Medical Corps, U. S. A., and A. E. F., from September, 1917 to July, 1919, and practiced in Winthrop, Minnesota, from July, 1919 to April, 1920. He entered The Mayo Foundation April 1, 1920 as a fellow in ophthalmology; his services included special ophthalmological anatomy, pathology, and bacteriology (Medical School, University of Minnesota), one year; clinical ophthalmology, one year; medical ophthalmology, six months, and general ophthalmology, six months. He left The Mayo Foundation April 1, 1923, and has since been an instructor in ophthalmology at the Univeristy of Minnesota. He is a member of the Hennepin County Medical Society, the Minnesota State Medical Asscciation, and the Association of Resident and

Harold L. Goss

Ex-Resident Physicians of the Mayo Clinic. He married Helen L. Carlson September 20, 1917. His address is 900 Donaldson Building, Minneapolis, Minnesota.

Bibliography.—1. Effect of blood transfusion on retinitis of pernicious anemia. Am. Jour. Ophth., 1923, vi, 661–664.

Gracy, Alice, A.B., M.D., was born December 1, 1893 in Jamaica, New York; received the degree of A.B. in 1917 from Syracuse University, and of M.D. in 1920 from Syracuse Medical College; interned at the Children's Hospital in San Francisco and at the Browne Memorial Hospital, Poughkeepsie, New York, for four months; was instructor and assistant resident physician at Vassar College, one year, and entered The Mayo Foundation July 1, 1922 as a fellow in medicine. Her services included general diagnosis, six months; medical hospital service, three months; obstetrics and gynecology, one month (and part time, five months), and radium therapy, two months. She left the Foundation July 1, 1923, and has since practiced in South Bend, Indiana. She is a member of St. Joseph County Medical Society. She married Dr. A. S. Giordano August 28, 1923. Her address is 1222 Twenty-fifth Street, South Bend, Indiana.

Alice Gracy

Graham, Christopher, B.S., V.M.D., M.D., was born April 3, 1856 in Cortland County, New York; received the degree of B.S. in 1887 from the University of Minnesota, and of V.M.D. in 1892, and of M.D. in 1894 from the University of Pennsylvania. He was the first intern at St. Mary's Hospital, Rochester, Minnesota, and for twenty-five years was attending physician. He was appointed associate in medicine at the Mayo Clinic in 1904, and in 1914 succeeded Dr. Stinchfield as head of the Division of Medicine. He was professor of medicine, The Mayo Foundation, Graduate School, University of Minnesota, from 1915 to 1919. He retired in 1919. He is a member of the Association of Resident and Ex-Resident Physicians

Christopher Graham

of the Mayo Clinic. He married Blanche Breckenridge January 4, 1899. His address is Rochester, Minnesota.

Bibliography.—1. Myositis ossificans progressiva. With report of case. St. Paul Med. Jour., 1901, iii, 22–24.
2. Lobar pneumonia, croupous pneumonia, pneumococcus infection (Musser). Northwest. Lancet., 1901, xxi, 93–97.
3. Diagnosis of ulcer of the stomach. Northwest. Lancet, 1903, xxiii, 1–3.
4. Duodenal ulcer, symptoms and diagnosis; based on forty-six operated cases; thirty-three males; thirteen females. St. Paul Med. Jour., 1904, vi, 658–664.
5. Notes on 273 labors. St. Paul Med. Jour., 1904, vi, 830–833.
6. A clinical review of forty-six operated cases of duodenal ulcer. Tr. Am. Surg., Assn., 1904, xxii, 58–74. (With W. J. Mayo.)
7. Ulcer and cancer of the stomach: their relationship. Boston Med. and Surg., Jour., 1905, cliii, 240–242; also Jour. Minn. Med. Assn., 1906, xxvi, 225–229.
8. Diagnosis of gall-bladder diseases (based upon 135 consecutive personal examinations on 101 females and thirty-four male patients, followed by operations during 1904). New York Med. Jour., 1905, lxxxii, 1058–1060.
9. Gastric ulcer and cancer. Boston Med. and Surg. Jour., 1906, clv, 193–195.
10. Diagnosis between duodenal ulcer and gall-stone disease. Jour. Am. Med. Assn., 1907, xlviii, 515–517.
11. Prominent symptoms in the diagnosis of gastric and duodenal ulcers. Jour. Am. Med. Assn., 1908, ii, 651–653.
12. Cancer of the stomach. Boston Med. and Surg. Jour., 1908, clix, 635–639.
13. Diagnosis of gastric ulcer with differential diagnosis. Illinois Med. Jour., 1909, xvi, 137–143.
14. The value of the test-meal in gastric diagnosis. New York Med. Jour., 1909, xc, 433–435. (With D. C. Guthrie.)
15. Differential diagnosis of gall stones, ulcer, and cancer of the stomach. Penn. Med. Jour., 1909–1910, xiii, 91–97.
16. Differential diagnosis of diseases causing gastric disturbance. Jour. Minn. State Med. Assn., 1910, xxx, 139–142.
17. The dyspeptic type of chronic appendicitis. Jour. Am. Med. Assn., 1910, liv, 960–963; also, Tr. Luzerne Co. Med. Soc., 1911, xviii, 10–21. (With D. C. Guthrie.)
18. Extra-uterine pregnancy, review of 100 consecutive operative cases. New York State Jour. Med., 1911, xi, 160–162.
19. Carcinoma of the stomach. Med. Herald, 1913, n.s., xxxii, 238–244.
20. Notes on gastric and duodenal ulcers. Boston Med. and Surg. Jour., 1914, clxx, 221–226.
21. Notes on gastric and duodenal ulcers. Boston Med. and Surg. Jour., 1915, clxxiii, 543–547.
22. Peptic ulcer and gallstones in upper abdominal diagnosis. Colorado Med., 1918, xv, 34–41.

Granger, Gertrude Booker, was born March 13, 1871 in Dover, Minnesota; received the degree of M.D. from the University of Minnesota in 1897, and practiced in Dover, Minnesota, from June, 1897 to January, 1898, when she accepted a position as clinical assistant in the Mayo Clinic. As the work gradually became classified, she assisted Dr. C. H. Mayo in the care of diseases of the eye, ear, nose, and throat, and later took charge of the work on refractions of the eye. She left the Mayo Clinic March 1, 1914, to assume the duties of full-time health officer for the city of Rochester, assisting Dr. C. H. Mayo. She resigned this position at the end of two years to engage in limited consultation work in her former specialty, refractions of the eye. She is a member of the Olmsted County Medical Society, the Southern Minnesota Medical Association, the Minnesota State Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. She married Mr. George W. Granger February 14, 1900. Her address is Rochester, Minnesota.

Gertrude Booker Granger

Bibliography.—1. Analysis of 13,000 cases for errors of refraction. Journal-Lancet, 1913, xxxiii, 233–235.

Gray, Ellis B., B.A., M.D., was born December 29, 1893 at Gray Court, South Carolina; received the degree of B.A. in 1914 from Trinity College, Durham, North Carolina, and the degree of M.D. in 1918 from Harvard Medical College; interned at the Pennsylvania Hospital, Philadelphia, and practiced in Greenville, South Carolina, from October, 1920 to January 1, 1923, when he entered The Mayo Foundation as a fellow in ophthalmology. His services included anatomy, University of Minnesota, six months, and ophthalmology, fifteen months. He left The Mayo Foundation October 8, 1924, and became ship surgeon on the U. S. S. Republic. He is now on the house staff of the Manhattan Eye, Ear, and Throat Hospital, New York City. He is a member of Kappa

Ellis B. Gray

Alpha and Phi Beta Pi. His address is the Manhattan Eye, Ear, and Throat Hospital, 210 East Sixty-fourth Street, New York City.

Greene, Carl H., B.A., Ph.D., M.D., was born June 22, 1896 in South Bend, Indiana; received the degree of B.A. from the University of Missouri in 1914, of Ph.D. from Yale University in 1917, and of M.D. from Johns Hopkins University in 1920; served as First Lieutenant in the chemical war service in 1918, and was resident house officer at Johns Hopkins Hospital from 1920 to 1921. He came to the Mayo Clinic October 1, 1921 as an assistant in one of the sections on medicine. He was appointed first assistant July 1, 1922, and associate, January 1, 1926. He is also an instructor in medicine in The Mayo Foundation, Graduate School, University of Minnesota. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the American Association for the Advancement of Science, the American Medical Association, the American Physiological Society, the American Society of Biological Chemists, the American Society for Clinical Investigation, the American Society for Experimental Pathology, the Osler Medical Historical Society, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Alpha Kappa Kappa, and Sigma Xi. His address is Rochester, Minnesota.

Carl H. Greene

Bibliography.—1. The skeletal musculature of the king salmon. Bull. U. S. Bureau of Fisheries, 1913, xxxiii, 21. (With C. W. Greene.)

2. Changes in the composition of muscle of salmon during migration. Jour. Biol. Chem., 1918, xxxiii, xii.

3. Changes in nitrogenous extractives in the muscular tissue of the king salmon during the fast of spawning migration. Jour. Biol. Chem., 1919, xxxix, 457–477.

4. A graphic application of the principle of the equilateral triangle for determining the direction of the electrical axis of the heart in the human electrocardiogram. Bull. Johns Hopkins Hosp., 1919, xxx, 162–167. (With E. P. Carter and C. P. Richter.)

5. The electrocardiogram and ventricular preponderance. Arch. Int. Med., 1919, xxiv, 638–644. (With E. P. Carter.)

6. The titration of organic acids in milk. Jour. Biol. Chem., 1921, xlvi, xxxviii. (With B. Kramer.)

7. Dialysis indicator method for the determination of the hydrogen-ion concentration of milk. Jour. Biol. Chem., 1921, xlvi, xlii. (With B. Kramer.)

8. X-ray pictures of the bones in the diagnosis of syphilis in the fetus and in young infants. Bull. Johns Hopkins Hosp., 1921, xxxii, 75–77. (With P. G. Shipley, J. W. Pierson, and A. A. Weech.)

9. Chronic diffuse nephritis in childhood. Report of a case with a review of the literature. Am. Jour. Dis. Child., 1922, xxiii, 183–209.
10. Bilateral hypoplastic cystic kidneys. Report of a case simulating chronic diffuse nephritis in a girl three years of age. Am. Jour. Dis. Child., 1922, xxiv, 1–19.
11. The partial pressure of oxygen in the blood during progressively induced anoxemia. Jour. Biol. Chem., 1922, lii, 137–155. (With C. W. Greene.)
12. Does the partial pressure of oxygen in arterial blood during progressive anoxemia support the secretory theory? Am. Jour. Physiol., 1922, lix, 422–443. (With C. W. Greene.)
13. The utilization of oxygen in the blood at different stages of anoxemia. Am. Jour. Physiol., 1922, lxii, 542–556. (With C. W. Greene.)
14. The oxygen exhaustion of the blood as a factor in flight limitations. Mil. Surgeon, 1923, lii, 28–30. (With C. W. Greene.)
15. Xeroderma pigmentosum. A clinical and pathological report of one case. Bull. Johns Hopkins Hosp., 1924, xxxv, 285–294. (With A. R. Rich and W. C. Davison.)
16. Changes in the concentration of the blood following the administration of excessive quantities of water. Am. Jour. Physiol., 1924, lxviii, 111–112. (With L. G. Rowntree.)
17. Clinical and experimental observations on the intravenous use of mercurochrome. Collected Papers of the Mayo Clinic, 1924, xvi, 1081; also Soc. Clin Surg., 1924, xxxviii, 35–36. (With P. S. Hench and A. M. Snell.)
18. The amino-acid content of the blood in normal and pathologic conditions. Jour. Biol. Chem., 1924, lviii, 845–857. (With Kathleen Sandiford and Helen Ross.)
19. Functional tests in hepatic disease. Minn. Med., 1925, viii, 142–145.
20. The excretion of mercurochrome in the bile. Jour. Pharmacol. and Exper. Therap., 1925, xxv, 142–144. (With P. S. Hench and A. M. Snell.)
21. Diseases of the liver. I. A survey of tests for hepatic function. Arch. Int. Med., 1925, xxxvi, 248–272. (With A. M. Snell and W. Walters.)
22. Diseases of the liver. II. A comparative study of certain tests for hepatic function in experimental obstructive jaundice. Arch. Int. Med., 1925, xxxvi, 273–291. (With A. M. Snell and L. G. Rowntree.)
23. Diseases of the liver. III. A comparative study of certain tests for hepatic function in patients with obstructive jaundice. Arch. Int. Med., 1925, xxxvi, 418–436. (With C. S. McVicar, L. G. Rowntree, and W. Walters.)
24. Diseases of the liver. IV. Functional tests in cases of carcinoma of the liver and biliary tract. Arch. Int. Med., 1925, xxxvi, 542–560. (With C. S. McVicar, L. G. Rowntree, and W. Walters.)
25. The clinical use of tests for hepatic function. Jour. Am. Med. Assn., 1925, lxxxv, 1476–1478.
26. Diseases of the liver. V. A comparative study of tests for hepatic function in certain diseases of the hematopoietic system. Arch. Int. Med., 1926, xxxviii, 167–185. (With H. M. Conner.)

Greene, Earle I. F., B.S., M.D., was born September 10, 1897 in Chicago, Illinois; received the degree of B.S. in 1920 from the University of Chicago, and the degree of M.D. in 1922 from Rush Medical College, and was intern at the Cook County Hospital, Chicago, from July 1, 1922, to January 1, 1924. During the war he served with the artillery division of the United States Army. He entered The Mayo Foundation April 1, 1924 as a fellow in surgery; his services thus far have included postoperative treatment, three months; general diagnosis, one year, and surgical pathology, six months. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the American Medical Association, and Phi Beta Kappa. His address is Rochester, Minnesota.

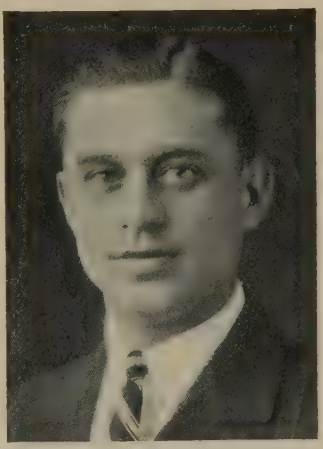
Earle I. F. Greene

Bibliography.—1. Chaparro amargosa in treatment of amebic dysentery. Illinois Med. Jour., 1923, xliv, 437–440. (With A. A. Goldsmith.)

Greenfield, William J., B.A., M.D., was born May 8, 1890 in Clara City, Minnesota; attended Macalester College, St. Paul, from 1911 to 1912; received the degree of B.A. from Hope College, Holland, Michigan, in 1914, and of M.D. from the University of Michigan in 1918. He entered The Mayo Foundation July 1, 1918 as a fellow in otolaryngology; his services consisted of otolaryngology and rhinology, three years (half time the last six months). He was first assistant in the Section on Laryngology, Oral and Plastic, Mayo Clinic, from February, 1921 until January 1, 1924, when he joined the staff of the Lexington Clinic, Lexington, Kentucky. He is a member of the American Medical Association and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. His address is 190 North Upper Street, Lexington, Kentucky.

William J. Greenfield

Greenwald, Leo J., D.D.S., was born December 27, 1896 in Ludington, Michigan; attended the Chicago College of Dental Surgery from 1916 to 1919, receiving the degree of D.D.S. in 1919. He practiced dentistry in Ludington, Michigan, from June 5, 1919 to September 1, 1923, when he entered The Mayo Foundation as a fellow in dental surgery. His service included two years in the Section on Dental Surgery. He left The Mayo Foundation September 1, 1925 to resume practice in Ludington. He is a member of the Michigan State Dental Association, the American Dental Association, and the Delta Sigma Delta fraternity. His address is Ludington, Michigan.



Leo J. Greenwald

Grigsby, Roll O., B.S., M.D., was born December 14, 1891 at Blandinsville, Illinois; attended Hedding College, Illinois, from 1909 to 1911; received the degree of B.S. from the University of Chicago in 1914, and of M.D. from Rush Medical College, University of Chicago, in 1916; was intern at the Presbyterian Hospital, Chicago, for eight months in 1916; practiced at Forsyth, Montana, four months, and at Pony, Montana, three years. He entered The Mayo Foundation as a fellow in otolaryngology April 1, 1920; his services included neurology, three months; laryngology, oral and plastic, three months; ophthalmology, six months, and otolaryngology and rhinology, eighteen months. He left The Mayo Foundation October 1, 1922, and practiced ophthalmology and otolaryngology at the Kenosha Clinic, Kenosha, Wisconsin, for two years. He is now practicing in Ashland, Wisconsin. He is a member of the Ashland, Iron, and Bayfield Counties Medical Association, the Winconsin State Medical Association, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Phi Beta Pi. He married Merdella Kalkhurst December 15, 1916. His address is Knight Building, Ashland, Wisconsin.

Roll O. Grigsby

Grimes, Henry B., M.D., was born September 8, 1877 in Mansfield, Ohio, and received the degree of M.D. from the University of Michigan in 1903. He entered the Mayo Clinic June 25, 1903, and was intern in St. Mary's Hospital until July, 1904. He practiced medicine at Lake Crystal, Minnesota, until April, 1911, and has since practiced at Madelia, Minnesota. During the war he served as Captain in the Medical Corps, at Camp Custer, Michigan, and is at present Major in the Medical Reserve Corps. He is a member of the Watonwan County Medical Society, the Minnesota State Medical Association, the Southern Minnesota Medical Association, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Lizabelle Norman June 8, 1921. His address is Madelia, Minnesota.

Henry B. Grimes

Grob, Otto, M.D., was born February 16, 1896 in Nagybecskerek, Hungary; attended the University of Budapest from 1914 to 1919, the University of Zagreb from 1920 to 1921, and the University of Vienna from 1921 to 1923, where he received the degree of M.D. in 1923; interned at the University of Vienna Hospital four months and at the Willard Parker Hospital, New York, eight months, and entered The Mayo Foundation July 1, 1924, as a fellow in pediatrics. His service included twenty-two months in the Section on Pediatrics. He left the Mayo Foundation April 27, 1926, and is now practicing in Detroit, Michigan. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, and the American Medical Association. He married Erna Friedlein October 18, 1924. His address is 10 Peterboro Street, Detroit, Michigan.

Otto Grob

Gulick, Walter V., B.A., M.D., was born April 14, 1870 in New York City; received the degree of B.A. from Oberlin College, Oberlin, Ohio, in 1893, and of M.D. from Rush Medical College, University of Chicago, in 1901, and practiced in Oronoco, Minnesota, from 1901 to 1904. He came to the Mayo Clinic in 1904; was intern at St. Mary's Hospital from 1904 to 1905, and clinical assistant from 1905 to 1906. He left the Mayo Clinic in 1906, went to Tacoma, Washington, as laboratory diagnostician, and later to Seattle, where he practiced neurology. He was a member of the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Eleanor Brooks. He died in Seattle February 10, 1922.

Gunby, Paul C., B.A., M.D., was born July 15, 1893 at Niagara Falls, New York; received the degree of B.A. in 1914, and of M.D. in 1918, from Harvard University, Cambridge, Massachusetts. He entered The Mayo Foundation May 16, 1918 as a fellow in surgery; his services included general diagnosis, fourteen and one-half months; pathologic anatomy, five months; surgery, one year; and orthopedic diagnosis, three months. He left The Mayo Foundation April 1, 1921; practiced in Sherman, Texas, later at the Dallas Diagnostic Clinic, Dallas, Texas, again in Sherman, Texas, and is now practicing in Seattle, Washington. He is a member of the Grayson County Medical Society, the State Medical Association of Texas, the Texas Surgical Society, and Alpha Omega Alpha. He married Elizabeth Mathis June 30, 1923. His address is 333 Medical and Dental Building, Seattle, Washington.

Paul C. Gunby

Bibliography.—1. Neuroblastoma sympathicum: report of one case. Am. Jour. Med. Sc., 1920, clx, 207–214.

Gurney, John O., B.A., B.S., M.D., was born December 31, 1880 in Union County, Mississippi; received the degree of B.A. and of B.S. from Iuka Normal School, Iuka, Mississippi, in 1902, and of M.D. from Tulane University, New Orleans, in 1907; practiced medicine at Belzoni, Mississippi, from 1907 to 1910, and at Tupelo, Mississippi, from 1910 to 1918. He entered The Mayo Foundation July 3, 1918 as a special student in surgery; his services included general diagnosis, seven months, and pathologic anatomy, six months. He left The Mayo Foundation August 1, 1919, and practiced at Itta Bena, Mississippi two and one-half years. Since January, 1923 he has practiced gynecology and obstetrics at Pine Bluff, Arkansas. He is a member of the Jefferson County Medical Society, the Arkansas State Medical Association, and the Southern Medical Association. He married Elizabeth Bryson January 17, 1917. His address is Pine Bluff, Arkansas.

John O. Gurney

Guthrie, Donald, Ph.B., M.D., F.A.C.S., was born June 23, 1880 in Wilkes-Barre, Pennsylvania; received the degree of Ph.B. from Yale University, New Haven, Connecticut, in 1901, and of M.D. from the University of Pennsylvania in 1905, and was intern at the Wilkes-Barre City Hospital from 1905 to 1906. He entered the Mayo Clinic July 1, 1906; his services included surgery, one year, and general diagnosis, two years and two months. He left the Mayo Clinic September 1, 1909, and since 1910 has been chief surgeon at the Robert Packer Hospital, Sayre, Pennsylvania, and is chief surgeon of the Lehigh Valley Railroad. During the war he served as First Lieutenant in the Medical Reserve Corps. He is a member of the Bradford County Medical Society, the Medical Society of the State of Pennsylvania, the New York and New England Railway Association, the Board of Physicians in Industry, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and a Fellow in the

Donald Guthrie

Southern Surgical Association, the American Surgical Association, and the Surgical Research Association. He married Emily Baker in 1916. His address is the Robert Packer Hospital, Sayre, Pennsylvania.

Bibliography.—1. Congenital unilateral absence of the urogenital system. Ann. Surg., 1909, l, 907–912. (With L. B. Wilson.)
2. The value of the test meal in gastric diagnosis. New York Med. Jour., 1909, xv, 433–435. (With C. Graham.)
3. Diagnosis and surgical treatment of gall-bladder disease. Pennsylvania Med. Jour., 1910.
4. The differential diagnosis between cancer, ulcer of the stomach, and gall-bladder disease. Albany Med. Ann., 1910, xxxi, 187–196.
5. The dyspeptic type of chronic appendicitis (pyloric spasm) with differential diagnosis. Tr. Luzerne Co. Med. Soc., 1911, xviii, 10–21. (With C. Graham.)
6. The prophylaxis of cancer. Pennsylvania Med. Jour., 1911, xiv, 939–946.
7. The prevention and treatment of complications in gastro-intestinal surgery. Pennsylvania Med. Jour., 1911–1912, xv, 272–276.
8. Gas bacillus infection. Pennsylvania Med. Jour., 1912–1913, xvi, 863–867. Also, Am. Jour. Surg., 1913, xxvi, 427–429.
9. The Rodman operation for breast cancer. Jour. Am. Med. Assn., 1914, lxiii, 1256–1258.
10. The surgical treatment of exophthalmic goiter. Pennsylvania Med. Jour., 1913–1914, xvii, 687–694.
11. Indications for cholecystectomy. Jour. Am. Med. Assn., 1916, lxvii, 653–656.
12. The prevention of fecal fistula in suppurative appendicitis. Ann. Surg., 1916, lxiii, 452; also Pennsylvania Med. Jour., 1916, xix, 833–836.
13. An anatomical point which facilitates the location and delivery of the appendix. Ann. Surg., 1917, lxv, 742.
14. Cholecystectomy a better but a more dangerous operation than cholecystostomy. Interstate Med. Jour., 1917, xxiv, 763–771.
15. Factors of safety in abdominal hysterectomy. Pennsylvania Med. Jour., 1917, xxi, 65–72.
16. Temporary loss of voice following thyroidectomy. Jour. Am. Med. Assn., 1918, lxxi, 715–721.
17. Factors of safety in abdominal hysterectomy. Am. Jour. Surg., 1919, xxxiii, 49–56; also Jour. Indiana State Med Assn., 1919, xii, 71–74.
18. Trendelenburg anesthesia in surgery of the pelvis. Jour. Am. Med. Assn., 1919, lxxiii, 388–390.
19. A method of tracheotomy without loss of blood. Surg., Gynec., and Obst., 1919, xxix, 316–319.
20. Hospital morale. Pennsylvania Med. Jour., 1919, xxiii, 6–8; also New York Med. Jour., 1919, cx, 1048–1049.
21. Modern methods employed in the treatment of gas bacillus infection. Am. Jour. Surg., 1920, xxxiv, 8–10.
22. Radical operation of cancer of the breast. Tr. Assn. Res. and Ex-Res. Phys., Mayo Clinic, 1920, i, 26–36.
23. Fear—a harmful emotion. How may we eliminate it from the surgical patient's mind? New York State Jour. Med., 1922, xxii, 18–21; also Can. Med. Assn. Jour., 1922, xii, 559–562.
24. Conservation of life and function from a surgical standpoint. Tr. Assn. Res. and Ex-Res. Phys. Mayo Clinic, 1922, iii, 31–34.
25. Should gastro-enterostomy be performed in the presence of ruptured duodenal ulcer? New York State Jour. Med., 1923, xxiii, 66–69.

26. What types of goiter should receive medical treatment? Atlantic Med. Jour., 1923, xxvi, 506–508.
27. The styloid process of temporal bone: its variations and their surgical significance. Edinburgh Med. Jour., 1924, xxxi, 182–190.
28. Tumor of the carotid body. Jour. Laryngol., Rhinol., and Otol., 1924, xxxix, 635–637.
29. Indications for cholecystostomy and cholecystenterostomy. Atlantic Med. Jour., 1925, xxix, 139–140.
30. The value of ethylene as a general anesthetic. Tr. Assn. Res. and Ex-Res. Phys. Mayo Clinic, 1925, vi, 241–245.

Habein, Harold C., B.S., M.D., was born July 27, 1894 in Waseca, Minnesota; received the degree of B.S. in 1916 from Carleton College, Northfield, Minnesota, and of M.D. in 1920 from Harvard University Medical College; was intern at the University Hospital in Minneapolis in 1920 and 1921, and practiced in Minneapolis from 1921 to April 1, 1924, when he came to the Mayo Clinic as an assistant in one of the sections on medicine. He was appointed first assistant in medicine April 1, 1925, and associate January 1, 1926. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Phi Beta Pi. He married Margaret Schmitt September 1, 1921. His address is Rochester, Minnesota.

Harold C. Habein

Bibliography.—1. Transfusion of citrated blood. Jour. Am. Med. Assn., 1921, lxxvi, 358. (With M. H. Hoffman.)
2. Lead poisoning, with special reference to poisoning from lead cosmetics. Am. Jour. Med. Sc., 1921, clxii, 833. (With M. Barron.)
3. Primary carcinoma of the lung. Minn. Med., 1922, v, 352–356. (With R. I. Rizer.)
4. The management of cases of colloid goiter. Minn. Med., 1925, viii, 734–737.

Hager, Benjamin H., B.S., M.D., was born March 26, 1892 in Marysville, Montana; received the degree of B.S. in 1915 from the University of Chicago, and of M.D. in 1917 from Rush Medical College, University of Chicago; was instructor in chemistry at the United States Naval Medical School and Hospital, Washington, D. C., in 1917, and as Lieutenant in the Medical Corps, U. S. N., was assigned to tropical duty from 1918 to 1920, and then was appointed medical director of the military hospital of Santo Domingo, U. S. Government, where he remained from June, 1920 to April, 1922. He entered The Mayo Foundation November 1, 1922 as a fellow in urology; his services included surgical pathology, five months; urology, eighteen months, and operative surgery, three months. He left The Mayo Foundation January 6, 1925, and was head of the Department of Urology at the University of Wisconsin, and urologist to the State of Wisconsin General Hospital for one year. He came to the Mayo Clinic February 1, 1926 as first assistant in the Section on Urology. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the American Medical Association, the American Urological Association, Phi Kappa Sigma, Nu Sigma Nu, Phi Beta Kappa, and Sigma Xi. He married Doris Petrola May 26, 1921. His address is Rochester, Minnesota.

Benjamin H. Hager

Bibliography.—1. Chronic pancreatitis. U. S. Nav. Med. Bull., 1918, xii, 79. (With F. W. Hartman.)
2. The action of viburnum prunifolium. Jour. Pharmacol. and Exper. Therap., 1919, xiii, 61–70. (With F. C. Becht.)
3. An improved procedure for the staining of acid-fast organism in tissue. Jour. Am. Med. Assn., 1923, lxxx, 460. (With Rose Dersch.)
4. Mercurochrome-220 soluble as a valuable adjuvant to the silver compounds in the treatment of gonorrhea and its complications. Jour. Am. Med. Assn., 1923, lxxxi, 1940–1942. (With W. H. Von Lackum.)
5. The clinical value of vital staining. Jour. Lab. and Clin. Med., 1924, ix, 738–742.
6. An improved application of the use of renal fluoroscopy at the operating table. Jour. Am. Med. Assn., 1925, lxxxv, 1222.
7. The etiology of incrusted cystitis with alkaline urine. Jour. Am. Med. Assn., 1925, lxxxv, 1352–1355. (With T. B. Magath.)
8. Foreign bodies in urethra and bladder: report of a case. Wisconsin Med. Jour., 1925, xxiv, 320–321.
9. Diathermy in gynecology and genito-urinary practice. Arch. Physiol. Therap., 1926, vii, 326–333.

10. A contribution to the etiology of calcareous pyelonephritis. Jour. Urol., 1926, xv, 133–141.
11. Rôle of a specific bacterium in the production of urinary calculi. Internat. Jour. Med. and Surg., 1926, xxxix, 219–224. (With T. B. Magath.)
12. Schistosomiasis. Arch. Surg., 1926. (In press.) (With A. J. Scholl.)

Haines, Samuel F., B.S., M.D., was born November 30, 1892 in Mantorville, Minnesota; attended Dartmouth College, Hanover, New Hampshire, from 1911 to 1912; received the degree of B.S. in 1915, and of M.D. in 1919, from Harvard University; was a special student in pathologic anatomy at the Mayo Clinic during the summer of 1919, and was intern at the Massachusetts General Hospital, Boston, from September, 1919 to July, 1921, when he entered The Mayo Foundation as a fellow in medicine. His service has consisted of general diagnosis, four and one-half years. He was appointed first assistant in one of the sections on medicine, Mayo Clinic, January 1, 1922, and associate October 1, 1924. He is an instructor in medicine, The Mayo Foundation, Graduate School, University of Minnesota. During the war he served with the Harvard Medical Unit, U.S.N.R.F., Boston. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the Massachusetts Medical Society, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Alpha Omega Alpha. He married Emily Williams June 18, 1921. His address is Rochester, Minnesota.

Samuel F. Haines

Bibliography.—1. Operative risk in cardiac disease. Jour. Am. Med. Assn., 1917, lxix, 2011–2014. (With J. M. Blackford and F. A. Willius.)
2. A review of a group of professional blood donors. Jour. Am. Med. Assn., 1924, lxxxi, 532–534. (With H. Z. Giffin.)
3. Intermittent ventricular fibrillation with complete recovery. Report of a case. Boston Med. and Surg. Jour., 1925, cxciii, 473–475. (With F. A. Willius.)
4. The status of the heart in myxedema. Am. Heart Jour., 1925, i, 67–72. (With F. A. Willius.)

Haley, G. Wolford, D.D.S., was born April 14, 1901 in Oswego, New York; attended the University of Pennsylvania Dental School from 1919 to 1923, receiving the degree of D.D.S., and entered The Mayo Foundation July 25, 1923 as a fellow in dental surgery. His service included two years in the Section on Dental Surgery. He left The Mayo Foundation August 1, 1925, and is now practicing dentistry in Chicago. He is a member of the Chicago Dental Society, the American Dental Association, the New York State Dental Association, Phi Delta Tau, and Omicron Kappa Upsilon. His address is 807 Monroe Building, 104 South Michigan Avenue, Chicago, Illinois.

G. Wolford Haley

Hallberg, Charles A., M.D., was born December 30, 1887 in Stockholm, South Dakota; received the degree of M.D. from the University of Illinois in 1911; was intern in the University Hospital, Chicago, from August, 1910 to February, 1912, and practiced medicine in Minneapolis from 1912 to 1917. He entered The Mayo Foundation July 5, 1917 as a fellow in surgery; his services included surgery, two and one-half months; general diagnosis, twenty-five months; surgical pathology, three months, and surgery, fifteen months. His services in the Foundation were interrupted by the war. He was First Lieutenant, Medical Corps, U. S. A., stationed at Camp Dodge, Iowa, in October and November, 1917, but was not in active service. He was appointed first assistant in one of the sections on medicine, Mayo Clinic, January 1, 1920, and was associate from April 1, 1921 until October 1, 1923, when he re-entered The Mayo Foundation as a fellow in surgery. He was on leave of absence from July 1, 1925 until January 1, 1926. He is a member of the Olmsted County Medical Society, Minnesota State Medical Association, American Medical Association, and Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Grace Albertson March 30, 1919. His address is Rochester, Minnesota.

Charles A. Hallberg

Bibliography.—1. Thyroiditis. Ann. Clin. Med., 1923, i, 261.

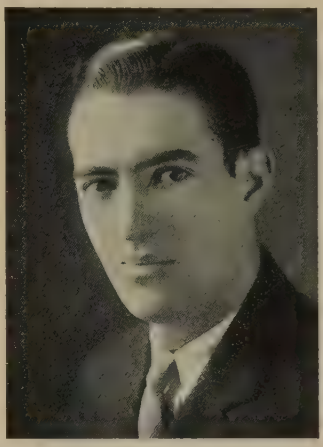
Hallenbeck, Dorr F., M.D., was born July 24, 1882 in Plainview, Minnesota; received the degree of M.D. from Northwestern University, Chicago, in 1908, was intern at the Wesley Memorial Hospital, Chicago, from 1908 to 1910, and practiced in Goodhue, Minnesota, from 1910 to 1913. He came to the Mayo Clinic July 1, 1913 as a member of the clinical staff, and is now head of a section on medicine. He is assistant professor of medicine, The Mayo Foundation, University of Minnesota. He is a member of the Olmsted County Medical Society, Southern Minnesota Medical Association, Minnesota State Medical Association, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Alpha Omega Alpha. He married Bessie E. Graham February 5, 1914. His address is Rochester, Minnesota.

Dorr F. Hallenbeck

Hamrick, Robert A., B.S., M.D., was born June 28, 1898 in Birmingham, Alabama; received the degree of B.S. in 1919 from the University of Alabama, Tuscaloosa, Alabama, and of M.D. in 1923 from Johns Hopkins University, Baltimore, and was intern at Johns Hopkins Hospital from September 1, 1923 until January 1, 1925, when he entered The Mayo Foundation as a fellow in surgery. His services thus far have included postoperative treatment, three months; medical hospital service, six months; general diagnosis, one and one-half months, and experimental pathology, one and one-half months. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, and Alpha Kappa Kappa. His address is Rochester, Minnesota.

Robert A. Hamrick

Hand, John R., B.S., M.D., was born December 13, 1901 at Elk Point, South Dakota; attended Mt. St. Charles College in Helena, Montana, from 1916 to 1918; received the degree of B.S. in 1920, and of M.D. in 1924, from the University of Minnesota, and was intern at the University Hospital, Minneapolis, from December, 1923 to December, 1924. He entered The Mayo Foundation January 1, 1925 as a fellow in urology; his services thus far have included general diagnosis, six months, urology, three months, and surgical pathology, three months. He is First Lieutenant in the Medical Officers' Reserve Corps and a member of the Olmsted County Medical Society, the Minnesota State Medical Association, Delta Tau Delta, and Alpha Kappa Kappa. His address is Rochester, Minnesota.



John R. Hand

Hansel, French K., M.D., M.S. in Otolaryngology, was born January 25, 1893 in Fidelity, Illinois; received the degree of M.D. in 1918 from St. Louis University, and of M.S. in Otolaryngology in 1923 from the University of Minnesota, and was intern in the City Hospital, St. Louis, from 1918 to 1919. He entered The Mayo Foundation June 1, 1919 as a fellow in surgery, but transferred his major to otolaryngology in April, 1920; his services included general diagnosis, four and one-half months; laryngology, oral and plastic, twenty and one-half months; surgical pathology, six months, and otolaryngology and rhinology, twenty-one months. He left The Mayo Foundation October 1, 1923; he is otolaryngologist at the Washington University Medical School, the Barnes Hospital and the St. Louis Children's Hospital, and visiting otolaryngologist at the St. Louis City and Isolation hospitals. He is a member of the St. Louis County Medical Society, the Missouri State Medical Association, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. His address is 1043–1046 Missouri Theater Building, St. Louis, Missouri.

French K. Hansel

Bibliography.—1. Melano-epithelioma of the palate. Jour. Am. Med. Assn., 1921, lxxvii, 19–22. (With G. B. New.)
2. Vasomotor rhinitis. Jour. Am. Med. Assn., 1924, lxxxii, 15–17.
3. Observations on bronchial asthma from the rhinologist's standpoint. Tr. Assn. Res. and Ex-Res. Phys. Mayo Clinic, 1925, vi, 189–195.

Hanson, William A., B.S., M.D., was born May 12, 1893 in Rochester, Minnesota; attended Macalester College, St. Paul, Minnesota, in 1913 and 1914, the University of Minnesota from 1914 to 1918, the University of Washington from 1918 to 1919, and the University of Minnesota from 1919 to 1922, receiving the degree of B.S. in 1919, and of M.D. in 1922, from the University of Minnesota, and interned at the Minneapolis General Hospital from July, 1921 to July, 1922, when he entered The Mayo Foundation as a fellow in surgery. His services included postoperative care, six months; general diagnosis, fifteen months; orthopedics, three months; surgical pathology, four and one-half months, and operative surgery, ten and one-half months. He left The Mayo Foundation October 1, 1925, and has since been practicing in Minneapolis. He is a member of the Webster County Medical Society, the Iowa State Medical Society, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Sigma Chi, and Nu Sigma Nu. His address is 1005 Yates Building, Minneapolis, Minnesota.

William A. Hanson

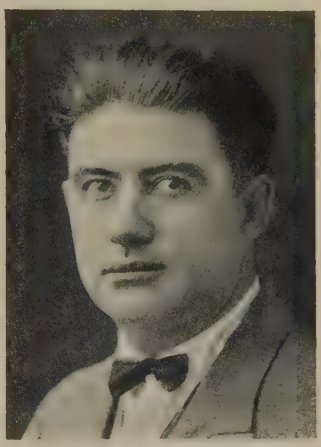
Hardenbergh, John G., V.M.D., was born April 15, 1892 in Berkshire, New York; received the degree of V.M.D. from the University of Pennsylvania in 1916; worked at the Gilliland Laboratories, Ambler, Pennsylvania, from July, 1916 to May, 1918, and was on active duty as First Lieutenant, United States Veterinary Corps, from May, 1918 to August, 1920, stationed at the United States Army Veterinary Laboratory, Philadelphia, and later at the Letterman General Hospital, San Francisco. He was with the Bureau of Animal Industry in New Jersey from October, 1920 to March, 1921. He entered The Mayo Foundation March 19, 1921 as first assistant in the Section on Experimental Surgery and Pathology.

John G. Hardenbergh

He is an instructor in veterinary science, The Mayo Foundation, Graduate School, University of Minnesota. He is a member of the Pennsylvania State Veterinary Medical Association, the American Veterinary Medical Association, Acacia, and Sigma Xi. He married Sara Keown October 1, 1919. His address is Rochester, Minnesota.

Bibliography.—1. The effect of the intradermic mallein test on subsequent complement-fixation tests for glanders. Jour. Am. Vet. Med. Assn., 1920, lvii, 282–294. (With R. A. Kelser.)
2. A case of purpura hemorrhagica with special reference to the use of epinephrin. Jour. Am. Vet. Med. Assn., 1921, lix, 762–766. (With S. D. Brimhall.)
3. A study of so-called kennel lameness, preliminary report. Jour. Am. Vet. Med. Assn., 1922, lxi, 145–154. (With S. D. Brimhall.)
4. The value of animal experimentation to veterinary medicine. Jour. Am. Vet. Med. Assn., 1923, lxii, 731–735.
5. Diagnosis and treatment of diseases of the skin of dogs. Jour. Am. Vet. Med. Assn., 1924, lxvi, 312–320.
6. Demodectic mange of the goat and its treatment. Jour. Am. Vet. Med. Assn., 1925, lxvii, 486–489. (With C. F. Schlotthauer.)
7. The significance of *Bacillus bronchisepticus* in canine distemper. Jour. Am. Vet. Med. Assn., 1925, lxviii, 309–320.

Harding, Donnan B., B.S., M.D., was born May 4, 1896 in Solon, Iowa; received the degree of B.S. in 1918, and of M.D. in 1920, from the University of Iowa, Iowa City; and was intern at the University Hospital, Iowa City, for twenty-seven months, including three months in the pathologic laboratory, one year in the Department of Internal Medicine, and one year in the Department of Surgery. He entered The Mayo Foundation October 1, 1922 as a fellow in roentgenology; his services included roentgen therapy, three months, and roentgenology, sixteen months. He was on leave of absence from January 15 to February 26, 1923. He left The Mayo Foundation April 21, 1924, and was associate in roentgenology at the Henry Ford Hospital in Detroit from that time until November 1, 1925, when he became roentgenologist at the Lexington Clinic, Lexington, Kentucky. He is a member of Phi Rho Sigma and Alpha Omega Alpha. He married Margery M. Heberling June 24, 1924. His address is 190 North Upper Street, Lexington, Kentucky.



Donnan B. Harding

Bibliography.—1. Gastrojejunal ulcer: report of a case. Radiology, 1924, ii, 264–265.
2. Lymphosarcoma of the stomach. Report of a case. Radiology, 1924, ii, 315–316.

Hardt, Leo L., B.S., M.S., M.D., was born October 24, 1892 in Chicago; received the degree of B.S. in 1914, and of M.S. in 1915 (majoring in physiology), from the University of Chicago, and of M.D. in 1917 from Rush Medical College, University of Chicago; was intern in the Presbyterian Hospital, Chicago, from 1916 to 1918; served as internist on the Medical Advisory Board in Chicago during the war; practiced internal medicine in Chicago from 1918 to 1920, with Dr. Thomas Rothstein from April to September, 1918, and with Dr. James B. Herrick from September, 1918 to October, 1919; was assistant in medicine at the Presbyterian Hospital and at Rush Medical College from 1918 to 1919, assistant in neurology at the Presbyterian Hospital and at Rush Medical College from 1919 to 1920, and also served on the staff of the Children's Memorial Hospital. He came to the Mayo Clinic November 1, 1920 as first assistant in one of the sections in the Division of Medicine. He left the Mayo Clinic in July, 1923, and is now practicing in Chicago. He is a member of the Chicago Medical Society, the Illinois State Medical Society, the Congress of Internal Medicine, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Sigma Xi. He married Ruth J. Sharer February 12, 1921. His address is 30 North Michigan Avenue, Chicago.

Leo L. Hardt

Bibliography.—1. Contributions to the physiology of the stomach. XXXIII. The secretion of gastric juice in cases of gastric and duodenal ulcers. Am. J. Physiol., 1916, xl, 314–331.

2. Pain in active pathologic processes in stomach or duodenum. Jour. Am. Med. Assn., 1918, lxx, 837–839.

3. Experimental intestinal obstruction. Arch. Int. Med., 1918, xxi, 292–308. (With F. L. South.)

4. Studies of the cause of pain in gastric and duodenal ulcers. II. Peristalsis as the direct cause of pain in gastric ulcers with achylia and in duodenal ulcers. Arch. Int. Med., 1922, xxix, 684–689.

5. Medical management of peptic ulcer. Ann. Clin. Med., 1922, i, 53–55.

6. Toxic manifestations following the alkaline treatment of peptic ulcer. Arch. Int. Med., 1923, xxxi, 171–180. (With A. B. Rivers.)

7. Kymographic studies of various pathologic conditions of the stomach. Med. Clin. N. Amer., 1923, vii, 63–79. (With E. G. Joseph.)

8. Coronary thrombosis simulating perforated peptic ulcer. Jour. Am. Med. Assn., 1924, lxxxii, 692–693.

Hargis, Estes H., M.D., was born January 11, 1895 in Cedar Springs, Tennessee; attended the Alabama Polytechnic Institute, Auburn, Alabama, from 1915 to 1917, and the University of Pennsylvania from 1917 to 1921, receiving the degree of M.D. in 1921; was intern at the Robert Packer Hospital, Sayre, Pennsylvania, from July, 1921 to July, 1922, and house physician there the following year. He entered The Mayo Foundation July 2, 1923 as a fellow in surgery; his services have included surgical research, six months; pathologic anatomy, six months; general diagnosis, six months; urology, six months; operative surgery, three months, and neurologic surgery, three months. He is a member of the Olmsted County Medical Society, Minnesota State Medical Association, American Medical Association, Acacia and Phi Chi, and an associate in Sigma Xi. His address is Rochester, Minnesota.

Estes H. Hargis

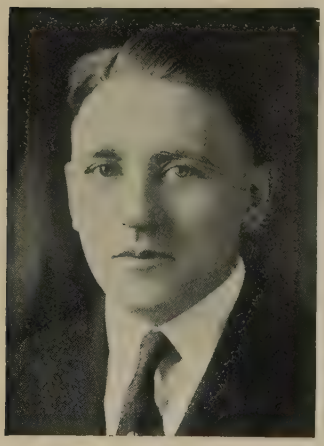
Bibliography.—1. Studies of the function of the gall-bladder. Surg., Gynec., and Obst., 1922, xxxiv, 307–320. (With V. C. Van Meter and W. B. Harer.)
2. Duodenal ulcer; an anatomical study. Med. Clin. N. Amer., 1925, viii, 1065–1092. (With H. E. Robertson.)
3. A plethysmographic study of the changes in the volume of the spleen in the intact animal. Am. Jour. Physiol., 1925, lxxv, 180–200. (With F. C. Mann.)
4. A method for the study of the variations in volume of organs in the intact animal. Jour. Lab. and Clin. Med., 1926, xi, 664–670.

Harrington, Ethel R., Ph.B., M.D., was born December 30, 1891 in Chicago, Illinois; received the degree of Ph.B. in 1912 from the University of Chicago, and the degree of M.D. in 1917 from Rush Medical College; interned at the Cincinnati General Hospital in 1917 to 1918, and at the Grant Hospital in Columbus, Ohio, in 1918 to 1919, and practiced in Cleveland, Ohio, from that time until coming to The Mayo Foundation January 1, 1924 as a fellow in pediatrics. Her services thus far have included pediatrics, eighteen months, and six months at the Medical School, University of Minnesota. She is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the American Medical Association, and Nu Sigma Phi. Her address is Rochester, Minnesota.

Ethel R. Harrington

Bibliography.—1. Preliminary report on the basal metabolism of 157 normal school children between the ages of five and seventeen years. Jour. Biol. Chem., 1925, lxiii, xxxv–xxxvii. (With Irene Sandiford.)

Harrington, Stuart W., M.D., M.S. in Surgery, F.A.C.S., was born April 20, 1889 in Blossburg, Pennsylvania; attended Pennsylvania State College, State College, Pennsylvania, from 1908 to 1909; received the degree of M.D. from the University of Pennsylvania in 1913, and of M.S. in Surgery from the University of Minnesota in 1920. He came to The Mayo Foundation in January, 1915 as a fellow in surgery; his services included general diagnosis, six months, and surgery, five years. He was appointed head of a section on general surgery, Mayo Clinic, July 1, 1920. He is an instructor in surgery, Mayo Foundation, Graduate School, University of Minnesota. He is a member of the Olmsted County Medical Society, the Southern Minnesota Medical Association, the Minnesota State Medical Association, the American College of Surgeons, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Phi Rho Sigma, and Sigma Alpha Epsilon. He married Gertrude Jones November 17, 1922. His address is Rochester, Minnesota.



Stuart W. Harrington

Bibliography.—1. Tumors of the urinary bladder. South. Med. Jour., 1918, xi, 129–139. (With E. S. Judd.)

2. Ectopic or pelvic kidney. Surg., Gynec., and Obst., 1919, xxviii, 446–451; also Tr. South. Surg. Assn., 1919, xxxi, 19–28. (With E. S. Judd.)

3. The effect on the kidney of various surgical procedures on the blood supply, capsule, and on the ureters. Arch. Surg., 1921, ii, 547–591.

4. Empyema. Surg. Clin. N. Amer., 1925, v, 791–806. (With A. G. Plankers.)

Harshbarger, Isaac L., M.D., was born October 4, 1897 in Port Republic, Virginia; attended Juniata College, Huntingdon, Pennsylvania, from 1916 to 1918, and later the University of Virginia, from which he received the degree of M.D. in 1922; interned at the University of Virginia Hospital from July 1, 1922 to June 15, 1923; at the Episcopal Eye, Ear, and Throat Hospital, Washington, D. C., from July to September, 1923, and at the Bridgeport Hospital, Bridgeport, Connecticut, from October, 1923 to July 1, 1924, when he entered The Mayo Foundation as a fellow in surgery. His services thus far have included general diagnosis, six months; orthopedic diagnosis, three months; regional anesthesia, three months; medical hospital service, three months, and orthopedic surgery, three months. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the Virginia State Medical Association, Phi Beta Pi, and Sigma Phi Epsilon. His address is Rochester, Minnesota.

Isaac L. Harshbarger

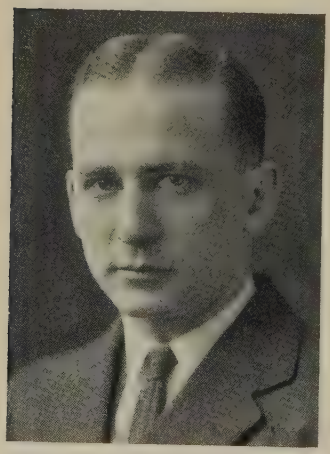
Hartman, Howard R., B.S., M.D., F.A.C.P., was born December 1, 1887 in Toledo, Ohio; received the degree of B.S. in 1911, and of M.D. in 1914, from the University of Michigan, and was intern at the University of Michigan Hospital, under Dr. C. G. Darling, one year. He was intern at St. Mary's Hospital (Mayo Clinic) from July 1, 1914 to July, 1915, when he entered The Mayo Foundation as a fellow in Surgery; he later transferred his fellowship to Medicine; his services included postoperative treatment, thirteen months, and gastro-enterology, three years. He was appointed first assistant in one of the sections in the Division of Medicine, Mayo Clinic, August 1, 1919, and associate October 1, 1919. He is instructor in Medicine, The Mayo Foundation, Graduate School, University of Minnesota. He is a member of the Olmsted County Medical Society, the Southern Minnesota Medical Association, the Minnesota State Medical Association, the American College of Physicians, the American Medical Asso-

Howard R. Hartman

ciation the American Society of Tropical Medicine, the American Gastro-Enterological Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Nu Sigma Nu, and Alpha Omega Alpha. He married Ila F. Alexander in 1915. His address is Rochester, Minnesota.

Bibliography.—1. Blood changes in a gastrectomized patient simulating those in pernicious anemia. Am. Jour. Med. Sc., 1921, clxii, 201–206.
2. Diagnostic and therapeutic aspects of biliary drainage. Minn. Med., 1922, v, 545–546.
3. The prevalence of free hydrochloric acid in cases of carcinoma of the stomach. Am. Jour. Med. Sc., 1922, clxiii, 186–190.
4. Diseases of the biliary system. Ann. Clin. Med., 1922, i, 107–110.
5. Jaundice in surgical cholecystitis without stones. Med. Clin. N. Amer., 1923, vii, 89–95.
6. Toxic nephritis in pyloric and duodenal obstruction. Arch. Int. Med., 1923, xxxii, 425–455. (With G. E. Brown, G. B. Eusterman, and L. G. Rowntree.)
7. The prognostic value of gastric acidity in cases of resectable carcinoma. Jour. Am. Med. Assn., 1924, lxxxiii, 1976–1977.
8. Pyloric obstruction due to swallowing a solution of concentrated lye. Med. Clin. N. Amer., 1925, viii, 1037–1040. (With P. P. Vinson.)
9. Peptic ulcer and palpable masses. Med. Clin. N. Amer., 1925, viii, 1041–1043.
10. Preoperative preparation of patients with gastric disease. Bol. d. inst. de Clin. Quir., 1925, i, 175–194.
11. Pancreatic lithiasis. Ann. Surg., 1925, lxxxii, 956–959.

Hauser, Emil D., B.S., M.B., M.D., was born February 22, 1897 in Freeland, Pennsylvania; received the degree of B.S. in 1919, of M.B. in 1921, and of M.D. in 1922, from the University of Minnesota; interned at the Minneapolis General Hospital, three months, at the City and County Hospital, St. Paul, three months, at the Aberdeen Hospital, St. Paul, three months, and at St. Mary's Hospital, Rochester, Minnesota, from 1921 to 1922; had a fellowship in general surgery at the Miller Clinic from 1922 to 1923, and entered The Mayo Foundation August 1, 1923 as a fellow in orthopedics. His services included neurology, six months, and orthopedics, seventeen months. He was first assistant in the Section on Orthopedics from April 1, 1925 to September 1, 1925, when he left The Mayo Foundation to accept a fellowship of the American Scandinavian Foundation. He spent six months studying in Stockholm and Sweden, and six months on the Continent. He returned to the Clinic September, 1926, as first assist-

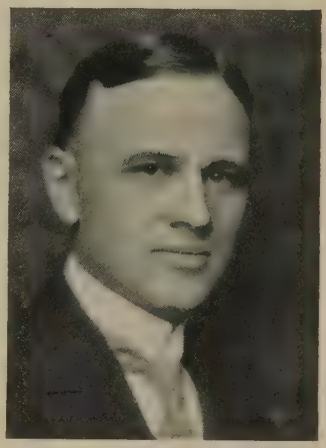


Emil D. Hauser

ant in a section on Orthopedic Surgery. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Alpha Sigma Phi, and Nu Sigma Nu. His address is Rochester, Minnesota.

Bibliography.—1. Acute bone atrophy. Arch. Surg., 1926, xii, 75–94. (With T. P. Noble.)
2. Coxa vara. Arch. Surg., 1926, xii, 501–538. (With T. P. Noble.)
3. Coxa vara without atrophy. Surg., Gynec., and Obst., 1926. (In press.)

Hayes, James M., B.S., M.D., M.S. in Surgery, F.A.C.S., was born January 15, 1880 in Millville, Minnesota; received the degree of B.S. from Carleton College, Northfield, Minnesota, in 1904, of M.D. in 1910, and of M.S. in Surgery in 1921, from the University of Minnesota; was intern in the University Hospital, Minneapolis, from June, 1910 to June, 1911, and practiced medicine in Browns Valley, Minnesota, from 1911 to 1916. He entered The Mayo Foundation November 1, 1916 as a fellow in surgery; his services included dermatology, five months; orthopedic diagnosis, three months; general diagnosis, eight and one-half months; surgery, seventeen months; roentgenology, three and one-half months; urology, three months, and regional anesthesia, three months. From December, 1917 to May, 1919 he served as Captain, Medical Corps, A. E. F., stationed at Base Hospital 26, and later serving with Operating Team 13 in the Château Thierry drive. He left The Mayo Foundation July 1, 1921 to practice general surgery in Minneapolis. He is assistant instructor in minor surgery, University of Minnesota Medical School, and a member of the surgical staff of St. Mary's and of St. Barnabas Hospitals. He is a member of the Minneapolis Surgical Society, the Hennepin County Medical Society, the Minnesota State Medical Association, the American Medical Association, the American College of Surgeons, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Catherine Nightingale November 13, 1920. His address is 730 La Salle Building, Minneapolis.



James M. Hayes

Bibliography.—1. The involvement of the lymph glands in carcinoma of the large intestine. Minn. Med., 1921, iv, 653–663.
2. Choosing anesthesia for general surgery. Minn. Med., 1923, vi, 28–35.
3. Treatment of varicose ulcers. Journal-Lancet, 1925, xlv, 12–15.
4. Indications and technic of procedure in gastric surgery. Journal-Lancet, 1925, xlv, 270–273.

Heacock, Charles H., B.A., M.D., was born October 1, 1888 in Turbotville, Pennsylvania; received the degree of B.A. from Bucknell University, Lewisburg, Pennsylvania, in 1911, and of M.D. from the University of Pennsylvania in 1917; was intern in the Long Island College Hospital, Brooklyn, New York, three months, and in the Polyclinic Branch of the Postgraduate School of the University of Pennsylvania, one year, and was Captain in the Medical Corps, A. E. F., attached to the British Forces from September, 1917 to March, 1918. He entered The Mayo Foundation as a fellow in roentgenology, July 1, 1920; his services included pathologic anatomy, six months; roentgenology, twenty-one months, and roentgen-ray therapy, three months. He left The Mayo Foundation January 1, 1923, and was roentgenologist at the Pueblo Clinic, Pueblo, Colorado, for three years. He is now head of the department of roentgenology at the Polyclinic, Memphis. He married Helen Rodgers June 19, 1920; she died April 29, 1922. He is a member of the Association of Resident and Ex-Resident Physicians of the Mayo Clinic and a diplomate of the National Board of Medical Examiners. His address is Polyclinic, Memphis, Tennessee.

Charles H. Heacock

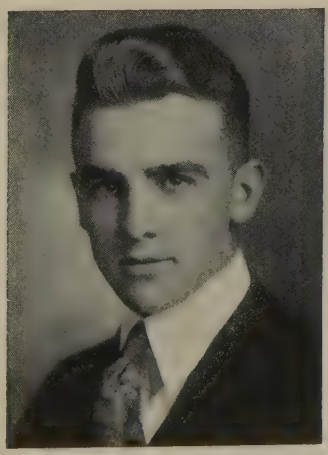
Bibliography.—1. Osgood-Schlatter's disease. Colorado Med., 1924, xxi, 365–368.

Heard, Joseph E., M.D., was born December 15, 1888 in Brownsville, Tennessee; received the degree of M.D. from Tulane University, New Orleans, in 1914, and was intern in the Charity Hospital, New Orleans, from June, 1914 to June, 1916. He entered The Mayo Foundation July 20, 1916 as a fellow in surgery; his services included surgery, twenty-one and one-half months; postoperative care, six months; pathologic anatomy, two months; general diagnosis, nine and one-half months; orthopedic diagnosis, three months; roentgenology, three months, and surgical pathology, three months. From August, 1917 to July, 1919 he served as Captain in the Medical Corps, A. E. F., in France. He left The Mayo Foundation in July, 1922 to become a member of the Holt Clinic at Fort Smith, Arkansas, where he remained four months. He is now practicing at Shreveport, Louisiana. He is a member of the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Grace McDonald June 25, 1922. His address is 807 Merchants' Building, Shreveport, Louisiana.

Joseph E. Heard

Bibliography.—1. Postoperative pulmonary embolism. New Orleans Med. and Surg. Jour., 1924, lxxvi, 451–459. Abst., Papers Mayo Foundation and Medical School, University of Minnesota, 1921–1922, ii, 419–421.

Heck, Frank J., B.S., B.M., M.S. in Pathology, M.D., was born June 1, 1897 in St. Paul, Minnesota, and received the degree of B.S. in 1919, of B.M. in 1924, and of M.S. in Pathology and of M.D. in 1925, from the University of Minnesota. He was appointed first assistant in clinical chemistry in the Section on Clinical Pathology, Mayo Clinic, and became a fellow in physiological chemistry, The Mayo Foundation, August 17, 1920; his services included clinical pathology and bacteriology, thirteen months. He left The Mayo Foundation September 27, 1921 to study medicine at the University of Minnesota, and July 1, 1925 went to Cincinnati for his internship. He re-entered The Mayo Foundation October 1, 1926 as a fellow in medicine. His address is Rochester, Minnesota.



Frank J. Heck

Bibliography.—1. The significance of slight albuminuria. Med. Ins. and Health Conservation, 1921, xxx, 209–217. (With A. H. Sanford, H. M. Conner, and T. B. Magath.)

2. A study of fibrinogen following removal of the liver. Am. Jour. Physiol., 1922, lix, 487. (With C. S. Williamson and F. C. Mann.)

Hedblom, Carl A., B.A., M.A., M.D., Ph.D. in Surgery, D.Sc., F.A.C.S., was born March 5, 1879 in Boone, Iowa; received the degree of B.A. from Colorado College, Colorado Springs, in 1907, of M.A. in 1908, and of M.D. in 1911, from Harvard University, Cambridge, of Ph.D. in Surgery from the University of Minnesota in 1920, and of D.Sc. (honorary) from Colorado College in 1921; was intern in the Massachusetts General Hospital, Boston, from October, 1911 to April, 1913, and Professor of surgery in the Harvard Medical Schools of China from 1913 to 1916. He entered The Mayo Foundation October 1, 1916 as a fellow in surgery; his services included orthopedics, four months, and surgery, twenty-three months. He was head of the Section on General and Thoracic Surgery, Mayo Clinic, from January 1, 1919 to September 15, 1924, and Professor of Surgery at the University of Wisconsin from then until February, 1926, when he accepted the position of Professor of Surgery at the University of Illinois. He was under appointment as Major and ordered to report for duty at the time of the Armistice. He is a member of the Western Surgical Association, the American Association for Thoracic Surgery, the American College of Surgeons, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Sigma Xi, and Phi Beta Kappa. He married Eleanor Pease June 18, 1913. His address is University of Illinois College of Medicine, Chicago, Illinois.

Carl A. Hedblom

Bibliography.—1. Blood-pressure with special reference to high altitudes. Am. Jour. Physiol., 1908–1909, xxiii, 90–104. (With E. C. Schneider.)

2. Some conditions affecting the discharge of food from the stomach. Am. Jour. Med. Sc., 1909, cxxxviii, 504–521. (With W. B. Cannon.)

3. Soluble chitin from Limuluspolyphemus and its peculiar osmotic behavior. Jour. Biol. Chem., 1909, iv, 483–497. (With C. L. Alsberg.)

4. The form of the uterine glands. (Boylston Prize thesis, Harvard Medical School, 1909.)

5. Hospital efficiency in China. China Med. Jour., 1916, xxx, 227–233.

6. Cholelithiasis: exclusively left-sided pain. China Med. Jour., 1916, xxx, 327–329. (With A. R. Kilgore.)

7. Plastic closure of buccal cavity following gunshot injury. China Med. Jour., 1916, xxx, 407–409.
8. A case of phlebitis migrans. Jour. Am. Med. Assn., 1916, lxvi, 1777.
9. On disease incidence in China. Boston Med. and Surg. Jour., 1917, clxxvi, 530–535.
10. On disease incidence in China. China Med. Jour., 1917, xxxi, 271–283.
11. Atypical cases of appendicitis. China Med. Jour., 1917, xxxi, 95–101.
12. A simple apparatus for insufflation anesthesia. China Med. Jour., 1917, xxxi, 18–20.
13. On the incidence of appendicitis in China. China Med. Jour., 1918, xxxii, 105–110.
14. The treatment of empyema. Jour. Iowa State Med. Soc., 1918, viii, 328–332.
15. Abscess of the lung with special reference to treatment. Minn. Med., 1919, ii, 337–344.
16. Pulmonary suppuration. Med. Rec., 1919, xcvi, 441–453.
17. The treatment of chronic empyema. (Thesis.) Ann. Surg., 1920, lxxii, 288–326.
18. Foreign bodies of dental origin in a bronchus, pulmonary complication. Ann. Surg., 1920, lxxi, 569–581.
19. The diagnosis and treatment of tuberculous empyema. Journal-Lancet, 1921, xli, 644–648.
20. Tumors of the bony chest wall. Arch. Surg., 1921, iii, 56–85.
21. Primary tuberculous pericarditis. Surg. Clin. N. Amer., 1921, i, 1411–1424.
22. The treatment of chronic empyema. Med. Record, 1921, xcix, 629–632.
23. Foreign bodies of dental origin in the bronchus: Pulmonary complications. Jour. Dent. Res., 1921, iii, 301–306.
24. The treatment of pericarditis with effusion. Minn. Med., 1922, v, 40–51.
25. Combined transpleural and transperitoneal resection of the thoracic esophagus and the cardia for carcinoma. Surg., Gynec., and Obst., 1922, xxxv, 284–287.
26. Open pneumothorax in its relation to the extirpation of tumors of the bony chest wall. Arch. Surg., 1922, iv, 588–597.
27. The diagnosis and treatment of tuberculous empyema. Surg., Gynec., and Obst., 1922, xxxiv, 445–465.
28. Principles in the treatment of empyema. (Editorial.) Surg., Gynec., and Obst., 1922, xxxiv, 412–413.
29. Graded thoracoplasty for unilateral bronchiectasis. Wisconsin Med. Jour., 1922–1923, xxi, 48–52.
30. Recent progress in the treatment of chronic empyema. Jour. Iowa State Med. Soc., 1923, xiii, 21–24; Northwest Med., 1923, xxii, 115–118.
31. Graded extrapleural thoracoplasty in chronic pulmonary suppuration with special reference to diffuse bronchiectasis. Northwest. Med., 1922, xxi, 423–425.
32. Prevention and treatment of chronic empyema. South. Med. and Surg. Jour., 1923, lxxxv, 229–235.
33. Causative factors and treatment of chronic empyema. Jour. Am. Med. Assn., 1923, lxxxi, 999–1005.
34. Extrapleural thoracoplasty in the treatment of bronchiectasis. Surg., Gynec., and Obst., 1924, xxxviii, 747–752.
35. Graded extrapleural thoracoplasty in the treatment of diffuse unilateral bronchiectasis. Arch. Surg., 1924, viii, 394–406.
36. The treatment of nontuberculous pulmonary suppuration. Northwest Med., 1924, xxiii, 1–8; also Minn. Med., 1924, vii, 668–669.
37. Parasternal diaphragmatic hernia. Surg. Clin. N. Amer., 1924, iv, 543–556.
38. The surgical treatment of acute pulmonary abscess and chronic pulmonary suppuration with especial reference to the posttonsillectomy type. Jour. Am. Med. Assn., 1924, lxxxiii, 1577–1581.
39. The treatment of nontuberculous pulmonary suppuration. Minn. Med., 1924, vii, 668–669.
40. Recent progress in thoracic surgery. Wisconsin Med. Jour., 1924, xxiii, 278–282; also Jour. Iowa Med. Soc., 1925, xv, 251–255.

41. The evolution of thoracic surgery as a specialty. Arch. Surg., 1925, x, 267–277.
42. Differential diagnosis and treatment of nontuberculous pulmonary suppuration. Colorado Med., 1925, xxii, 54–56.
43. Diaphragmatic hernia. A study of 378 cases in which operation was performed. Jour. Am. Med. Assn., 1925, lxxxv, 947–953.
44. Progress in thoracic surgery. Illinois Med. Jour., 1925, xlviii, 374–379.

Heetderks, Dewey R., A.B., M.D., was born May 17, 1896 in Grand Rapids, Michigan; attended Calvin College in Grand Rapids from 1914 to 1917, and later the University of Michigan, where he received the degree of A.B. in 1918 and of M.D. in 1922; was intern at the Blodgett Hospital, Grand Rapids, from 1922 to 1923, and entered The Mayo Foundation October 1, 1923 as a fellow in otolaryngology. His services have included postoperative treatment, three months; laryngology, oral and plastic, eighteen months, and otolaryngology and rhinology, six months. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, and Phi Chi. His address is Rochester, Minnesota.

Dewey R. Heetderks

Heimark, Julius J., A.B., A.M., M.B., M.D., was born June 7, 1888 in Clarkfield, Minnesota; received the degree of A.B. in 1912 from St. Olaf's College, Northfield, Minnesota, the degree of A.M. in 1913 from Gallaudet College, Washington, D. C., and the degree of M.B. in 1919 and of M.D. in 1920 from the University of Minnesota; was intern at the University Hospital, Minneapolis, from 1918 to 1919, and entered The Mayo Foundation as a fellow in surgery July 28, 1919. After eleven months he went to Fargo, North Dakota, and practiced in the Fargo Clinic from July 1, 1920 to July 1, 1924, when he again entered The Mayo Foundation, transferring his major to neurology. His services included orthopedics, two months; general diagnosis, six months; radium therapy, three months, and neurology, one year. He left The Mayo Foundation July 1, 1925 to return to the Fargo Clinic. He is a member of the Cass County Medical Society,

Julius J. Heimark

the North Dakota State Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Acacia, and Phi Beta Pi. He married Esther Moe June 24, 1919. His address is Fargo Clinic, Fargo, North Dakota.

Helmholz, Henry F., B.S., M.D., was born August 24, 1882 in Chicago; received the degree of B.S. from the University of Wisconsin in 1902, and of M.D. from Johns Hopkins University, Baltimore, in 1906; was a fellow in pathology at Johns Hopkins University from 1906 to 1907; did graduate work in the Universities of Berlin, Breslau, and Vienna from 1907 to 1909, and practiced pediatrics in Chicago from 1909 to 1920. He came to the Mayo Clinic in January, 1921 as head of the Section on Pediatrics. He is professor of pediatrics, The Mayo Foundation, Graduate School, University of Minnesota. During the war he was consulting pharmacologist for the War Department. He was editor of the American Journal of the Diseases of Children from 1919 to 1924, and is now a member of the editorial board. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the Central States Pediatric Society, the American Pediatric Society, the Northwest Pediatric Society, the American Association of Bacteriology and Pathology, the American Society of Pharmacology and Experimental Therapeutics, the American Physiological Society, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Sigma Xi, Phi Beta Kappa, and Alpha Omega Alpha. He married Isabel G. Lindsay December 30, 1907. His address is Rochester, Minnesota.

Henry F. Helmholz

Bibliography.—1. An adenoma of island of Langerhans. Johns Hopkins Hosp. Bull., 1907, xviii, 185–187.

2. A syncytiomatous tumor of the stomach. Johns Hopkins Hosp. Bull., 1907, xviii, 376–379.

3. Two cases of atresia of the small intestine. I. Multiple congenital atresia of the jejunum. II. Valvular atresia and secondary inflammatory obstruction of jejunum. Johns Hopkins Hosp. Bull., 1907, xviii, 370–375.

4. Experimental epithelial proliferations of skin and mucous membranes. Johns Hopkins Hosp. Bull., 1907, xviii, 365–368.

5. An experimental multiple chondroma. Johns Hopkins Hosp. Bull., 1907, xviii, 369.

6. Eosinophile Blutkörperchen und opsonischer Index bei der exudativen Diathese. Jahrb. f. Kinderh., 1909, lxix, 153–166.

7. Ueber Duodenalgeschwüre bei der Pädatrophie. Deutsch. med. Wchnschr., 1909, xxxv, 534–539.

8. Ueber passive Uebertragung der Tuberkulin-Ueberempfindlichkeit bei Meerschweinchen. Ztschr. f. Immunitätsforsch u. exper. Therap., 1909, iii, 371–375.
9. The relation of duodenal ulcers to atrophic conditions of infants. Arch. Pediat., 1909, xxv, 661–673.
10. Multiple gummata of the heart and stomach. Am. Jour. Obst., 1910, lxi, 345–346.
11. The regeneration of surface epithelium from the glands of Brunner in superficial duodenal ulcerations. Tr. Chicago Path. Soc., 1909–10, viii, 35.
12. Histologische Untersuchungen über die ersten Veränderungen nach der Tuberkuloseinfektion. Beitr. z. Klin. d. Tuberk., 1910, xvii, 39–50. (With T. Tojofuku.)
13. Pyrogenic action of salt solutions in rabbits. Arch. Int. Med., 1911, vii, 468–478.
14. Studies on milk sugar. Tr. Am. Assn. Study and Prev. Inf. Mortal., 1910, i, 107–114. Also, Arch. Pediat., 1911, xxviii, 373–379.
15. The use of blood charcoal as a clearing agent for urine containing glucose. Arch. Int. Med., 1911, vii, 598–601. (With R. T. Woodyatt.)
16. Duodenal ulcer in infancy. Tr. Chicago Path. Soc., 1909–11, viii, 204.
17. A study of the anterior horn cells of an Amelus and their relation to the development of the extremities. Tr. Chicago Path. Soc., 1909–11, viii, 127–132; also, Jour. Nerv. and Mental Dis., 1911, xxxviii, 367. (With A. H. Curtis.)
18. A study of the anterior horn cells of an Abrachius and their relation to the development of the extremities. Jour. Comp. Neurol., 1911, xxi, 323–336. (With A. H. Curtis.)
19. Report on study of temperature and infant health in Chicago. Tr. Am. Assn. Study and Prev. Inf. Mortal., 1913, iii, 282.
20. Pasteurization, sterilization, and boiling of milk. Tr. Am. Assn. Study and Prev. Inf. Mortal., 1913, iii, 206–218.
21. Ueber das Vorkommen der Hippursäure in Säuglingsharn. Ztschr. f. Kinderh., 1913, ix, 6–10. (With S. Amberg.)
22. Further observations concerning the relation of heat to infant mortality. Am. Jour. Obst., 1914, lxx, 529–531.
23. The relation of heat to the morbidity and mortality of infants from gastro-intestinal diseases. Jour. Am. Med. Assn., 1914, lxiii, 1371–1374.
24. The longitudinal sinus as the place of preference in infancy for intravenous aspirations and injections, including transfusion. Am. Jour. Dis. Child., 1915, x, 194–196.
25. Duodenal ulcer in infancy an infectious disease. Am. Jour. Dis. Child., 1915, x, 397–409. (With L. Gerdine.)
26. The bacteriology of the urine in healthy children and those suffering from extra-urinary infection. Am. Jour. Obst., 1916, lxxiv, 552.
27. The bacteriology of the urine in healthy children and those suffering from extra-urinary infections. Am. Jour. Dis. Child., 1916, xii, 345–354; also, Tr. Am. Pediat. Soc., 1916, xxviii, 283–293. (With Carol Beeler.)
28. An analysis of the mortality for 1915 in the infant welfare stations of Chicago. Jour. Am. Med. Assn., 1916, lxvii, 1567–1569. (With W. Hoffmann.)
29. Duodenal ulcer in infancy. Internat. Clin., 1916, iv, 70–79.
30. Experimental pyelitis in the rabbit. Jour. Am. Med. Assn., 1917, lxix, 898–901. (With Carol Beeler.)
31. The effect of chilling on experimental pyelonephritis in the rabbit. Arch. Pediat., 1917, xxxiv, 658–685. (With B. Rappaport.)
32. Focal lesions produced in the rabbit by colon bacilli isolated from pyelocystitis cases. Am. Jour. Dis. Child., 1917, xiv, 5–24; Am. Jour. Obst., 1917, lxxvi, 369–371; Arch. Pediat., 1917, xxxiv, 445–448; Tr. Am. Pediat. Soc., 1917, xxix, 86–106. (With Carol Beeler.)
33. Pyelocystitis in infancy and childhood. III. Med. Jour., 1917, xxxii, 311–314.
34. Ascending infection of the urinary tract. Arch. Pediat., 1918, xxv, 375–376.
35. Experimental pyelitis in the rabbit. Jour. Urol., 1918, ii, 395–419. (With Carol Beeler.)

36. Pyelitis in the newborn. Med. Clin. N. Amer., 1918, i, 1451–1456.
37. The detoxifying action of sodium salt on potassium salt in the guinea pig. Therap., Balt., 1918–1919, xii, 19–35. (With S. Amberg.)
38. Dextrose tolerance in atrophic infants. Tr. Am. Pediat. Soc., 1919, xxxi, 256–260. (With L. W. Sauer.)
39. The treatment of pyelitis in infancy and childhood. Jour. Am. Med. Assn., 1920, lxxv, 1303–1306. (With H. L. Kretschmer.)
40. Modes of infection in pyelitis. Am. Jour. Dis. Child., 1921, xxii, 606–612.
41. Parenteral infections in infancy. Minn. Med., 1921, iv, 608–611.
42. The use of drugs in infancy and childhood. Jour. Am. Med. Assn., 1921, lxxvii, 1157–1160.
43. The presence of bacteria and formed elements in the urine of rabbits. Jour. Lab. and Clin. Med., 1922, vii, 589–591.
44. Drug therapy in pyelitis. Jour. Am. Med. Assn., 1922, lxxix, 285–286.
45. The bacteriology of the normal infant's urine. Am. Jour. Dis. Child., 1922, xxiii, 309–315. (With Frances Millikin.)
46. The pathologic changes in experimental, ascending, and hematogenous pyelitis. Jour. Urol., 1922, viii, 301–306.
47. Pyuria in infancy and childhood. Journal-Lancet, 1922, xlii, 553–556.
48. Three cases of acute encephalitis treated with specific serum. Jour. Am. Med. Assn., 1922, lxxix, 2068–2071. (With E. C. Rosenow.)
49. The relation of pediatrics to general medicine. Ann. Clin. Med., 1923, i, 334–335.
50. Chronic ulcerative colitis in childhood. Am. Jour. Dis. Child., 1923, xxvi, 418–430. Abst., Arch. Pediat., 1923, xl, 454–456.
51. Ueber die Beziehungen der Infektionen der oberen Luftwege zur Pyelitis. Monatschr. f. Kinderh., 1923, xxvi, 228–231. (With Frances Millikin.)
52. The relation of infections of the upper respiratory tract to pyelitis. Jour. Am. Med. Assn., 1923, lxxxi, 1160–1163. (With Frances Millikin.)
53. The diagnosis of acute appendicitis in children. Minn. Med., 1924, vii, 187–193.
54. Preventive medicine and the future of medical practice. Jour. Am. Med. Assn., 1924, lxxxiii, 485–486.
55. An experimental study of therapeutic procedure in pyelocystitis. Am. Jour. Dis. Child., 1924, xxviii, 700–710. (With Frances Millikin.)
56. The pyogenic infections of the urinary passage. Chap. 99 in Abt's Pediatrics, Philadelphia, Saunders, 1924, iv, 914–937.
57. The effect of change of reaction on the growth of Bacillus coli and Staphylococcus aureus. Am. Jour. Dis. Child., 1925, xxix, 78–85. (With Frances Millikin.)
58. The kidney: A filter for bacteria. I. The presence of bacteria in the blood, kidney, and urine after varying intervals following intravenous injection. Am. Jour. Dis. Child., 1925, xxix, 497–505. (With Frances Millikin.)
59. The kidney: A filter for bacteria. II. The effect of diuresis on the excretion of bacteria by the kidney. Am. Jour. Dis. Child., 1925, xxix, 506–512. (With Ruth S. Field.)
60. The kidney: A filter for bacteria. III. The rôle of technic on the apparent excretion of bacteria by the kidney. Am. Jour. Dis. Child., 1925, xxix, 641–644. (With Ruth S. Field.)
61. The kidney: A filter for bacteria. IV. The effect of clamping the renal artery or renal vein on the passage of bacteria into the urine. Am. Jour. Dis. Child., 1925, xxix, 645–649. (With Ruth S. Field.)
62. The kidney: A filter for bacteria. V. The effect of nephrotoxins on the kidney filter for bacteria. Am. Jour. Dis. Child., 1925, xxx, 33–36. (With Ruth S. Field.)
63. History and examination of the patient from the public health viewpoint. Jour. Michigan State Med. Soc., 1926, (In press.)
64. Chronic ulcerative colitis in childhood. New York State Jour. Med., 1926, xxvi, 46–51

65. Infectious diseases and the health of the adult in recent years. Jour. Michigan State Med. Soc., 1926. (In press.)
66. Pediatric cases: A clinic. Journal-Lancet, 1926, xlvi, 29–32.
67. The kidney: A filter for bacteria. VI. The effect of ureteral obstruction on the excretion of bacteria. Am. Jour. Dis. Child., 1926, xxxi, 693–703. (With Ruth S. Field.)
68. The kidney: A filter for bacteria. VII. The passage of *Bacillus coli* through the kidney with acute staphylococcic lesions. Am. Jour. Dis. Child., 1926, xxxi, 856–862. (With Marian R. Bowers.)
69. The therapeutic value of mercurochrome, hexamethylenamin, and hexylresorcinol in cases of experimental urinary infection of rabbits. Jour. Urol., 1926, xv, 351–362. (With Ruth S. Field.)

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Bibliography.—1. Paralysis of recurrent laryngeal nerve associated with mitral stenosis. Jour. Am. Med. Assn., 1918, lxx, 4–6. (With G. E. Brown.)
2. Ménière's syndrome from a neuro-otologic aspect. Collected Papers Mayo Clinic, 1922, xiv, 698–705.
3. Diabetes in the practice of otolaryngology. Arch. Otolaryngol., 1925, i, 181–185. (With S. F. Adams.)
4. Mastoiditis without apparent involvement of the middle ear. Ann. Otol., Rhinol., and Laryngol., 1926, xxxv, 517–527.

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Bibliography.—1. The concentration of urea in saliva. Jour. Am. Med. Assn., 1922, lxxix, 1409–1412. (With Martha Aldrich.)
2. Salivary urea and the mercury combining power of saliva; a new and simple index of renal insufficiency. Med. Clin. N. Amer., 1923, vii, 123–134.
3. A salivary index to renal function. Jour. Am. Med. Assn., 1923, lxxxi, 1997–2003. (With Martha Aldrich.)
4. Apparatus for the determination of the salivary urea index. Jour. Am. Med. Assn., 1924, lxxxii, 1194–1195. (With Martha Aldrich.)
5. A note on renal functional tests for the general practitioner (with special reference to the salivary urea index). Northwest Med., 1924, xxiii, 539–542.
6. Clinical and experimental observations on the intravenous use of mercurochrome. Collected Papers Mayo Clinic, 1924, xvi, 1081–1083. (With A. M. Snell and C. H. Greene.)
7. The protean manifestations of chronic infectious arthritis. With a note on treatment. Med. Clin. N. Amer., 1925, viii, 1295–1306.
8. The excretion of mercurochrome in the bile. Jour. Pharmacol. and Exper. Therap., 1925, xxv, 142–144. (With A. M. Snell and C. H. Greene.)
9. The systemic nature of chronic infectious arthritis. Atlantic Med. Jour., 1925, xxviii, 425–436.
10. The mercury combining power of deproteinized blood. Proc. Soc. Exp. Biol. and Med., 1925, xxii, 556–558. (With Martha Aldrich.)

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Bibliography.—1. Retroperitoneal lipoma. Jour. Minn. State Med. Assn., 1909, xxix, 383–384.
2. Cyst of the round ligament of the liver. Ann. Surg., 1909, l, 550–551.
3. Open treatment of fractures. Jour. Minn. State Med. Assn., 1910, xxx, 405–407.
4. Cervical rib. Journal-Lancet, 1912, xxxii, 12–15.
5. Regeneration of the tendons. Journal-Lancet, 1913, xxxiii, 175–178.
6. Cervical rib: report of thirty-one cases. Am. Jour. Orthop. Surg., 1914, xi, 408–430.
7. The operative treatment of tuberculosis of the spine. St. Paul Med. Jour., 1913, xv, 279–290.
8. The treatment of ununited fractures of the tibia by the transplantation of bone. Ann. Surg., 1914, lix, 486–494.
9. Bifurcation of the transverse process of the fifth lumbar vertebra. Am. Jour. Orthop. Surg., 1914, xii, 54–64.
10. Some observations on the operative treatment of tuberculosis of the spine. St. Paul Med. Jour., 1914, xvi, 560–572.
11. Transplantation of bone in ununited fractures. Journal-Lancet, 1914, ii, 1086.
12. Resection of the knee-joint for tuberculosis. Jour. Am. Med. Assn., 1915, lxiv, 140–145.
13. Recent advances in orthopedic surgery. Internat. Abst. of Surg., 1915, 1–7.
14. Some mechanical derangements of the knee-joint. Interstate Med. Jour., 1915, xxii, 871–882.
15. Operative treatment of bunions by the Mayo method. Jour. Am. Med. Assn., 1915, lxv, 1356–1359.
16. Operative treatment of delayed union of fractures. Railway Surg. Jour., 1914–1915, xxi, 429–436.
17. End-results in fractures. Railway Surg. Jour., 1915–1916, xxii, 7–15.
18. Transplantation of bone for nonregeneration of the tibial shaft. Jour. Am. Med. Assn., 1916, lxvi, 177–178.
19. The transplantation of bone in ununited fractures of the shaft of the humerus. Ann. Surg., 1916, lxiii, 464–472.
20. The intraperitoneal inoculation of animals; its diagnostic value in orthopedic surgery. Am. Jour. Orthop. Surg., 1916, xiv, 329–336.
21. Transplantation of bone in fractures. Railway Surg. Jour., 1916, xxii, 463–467. Also: Journal-Lancet, 1916, xxxvi, 540–543.
22. Loose bodies in the knee-joint. Am. Jour. Orthop. Surg., 1916, xiv, 265–280.
23. Mechanical derangements of the knee-joint. Jour. Am. Med. Assn., 1917, lxviii, 321–325.
24. Osteochondromatosis of the knee-joint. Am. Jour. Orthop. Surg., 1917, xv, 351–356.
25. Tuberculosis of the spine: end-results of operative treatment. Surg., Gynec., and Obst., 1917, xxiv, 600–604.
26. The surgical treatment of infantile paralysis. St. Paul Med. Jour., 1917, xix, 365–370.
27. What are the real results of arthroplasty? Am. Jour. Orthop. Surg., 1918, xvi, 30–33.
28. Recurrent or habitual dislocation of the shoulder. Jour. Am. Med. Assn., 1918, lxx, 1–4.
29. The peroneal tendon as a transplant. Jour. Am. Med. Assn., 1918, lxx, 1456–1457.
30. Loose bodies in the elbow joint. Jour. Am. Med. Assn., 1918, lxxi, 177–180.
31. Mechanical derangement of the knee-joint. Ann. Surg., 1918, lxvii, 739–747; also Journal-Lancet, 1918, xxxviii, 523–529.

32. Loose osteocartilaginous bodies in the shoulder joint. Am. Jour. Orthop. Surg., 1918, xvi, 498–500.
33. Osteocartilaginous joint bodies. Railway Surg. Jour., 1918, xxv, 49–53.
34. Ankylosis of the jaw. Surg., Gynec., and Obst., 1918, xxvii, 451–458. (With G. B. New.)
35. Fractures of the hip. (Abstract.) New York Med. Jour., 1918, cviii, 88.
36. Fractures of the neck of the femur. Can. Med. Week., 1918.
37. Derangements of the semilunar cartilages of the knee-joint. Minn. Med., 1919, ii, 138–142.
38. Fractures considered as potential deformities. Minn. Med., 1919, ii, 163–168.
39. The use of beef-bone screws in fractures and bone transplantation. Jour. Am. Med. Assn., 1920, lxxiv, 715–717.
40. Ununited fractures of the hip. Surg., Gynec., and Obst., 1920, xxx, 145–148.
41. Injuries of the semilunar cartilages of the knee-joint. Ann. Surg., 1920, lxxi, 658–662.
42. Tuberculosis of the knee-joint in children. Minn. Med., 1920, iii, 463–471.
43. Old frractures. Journal-Lancet, 1920, xl, 687–694.
44. Osteocartilaginous joint bodies. Am. Jour. Roentgenol., 1920, vii, 588–590.
45. Postoperative treatment of orthopedic patients. In Bartlett, W.: The after-treatment of surgical patients. St. Louis, C. V. Mosby Company, 1920, ii, 1011–1040.
46. Nonunion of the humerus: Repair by means of the bone graft. South. Med. Jour., 1921, xiv, 148–154.
47. The treatment of ununited fractures. Ann. Surg., 1921, lxxiii, 487–494.
48. Internal derangement of the knee-joint. Railway Surg. Jour., 1921, xxvii.
49. Habitual or recurrent dislocation of the shoulder. Surg., Gynec., and Obst., 1921, xxxiii, 1–7.
50. Fractures of the femur. End-results. Jour. Orthop. Surg., 1921, iii, 520–528.
51. Restoration of triceps tendon by transplantation of the peroneus longus. Jour. Am. Med. Assn., 1921, lxxvii, 1572–1573.
52. Autogenous bone transplantation. Jour. Am. Med. Assn., 1921, lxxvii, 165–168.
53. Incisions in the knee-joint. Surg. Clin. N. Amer., 1921, i, 1483–1491.
54. Status of the bone graft in the treatment of fractures. Journal-Lancet, 1921, xli, 611–616.
55. Posterolateral incision for the removal of loose bodies from the posterior compartment of the knee-joint. Surg., Gynec., and Obst., 1921, xxxiii, 698–699.
56. Intrinsic derangement of the knee-joint. (Editorial.) Surg., Gynec., and Obst., 1922, xxxv, 681–683.
57. Nonunion of fractures of the neck of the femur. Pennsylvania Med. Jour., 1922, xxv, 452–458.
58. Osteoma of the cervical spine. Jour. Bone and Joint Surg., 1922, iv, 518–522.
59. Chronic noninflammatory lesions of the knee-joint. Arch. Surg., 1923, vi, 118–135.
60. Surgery in infantile paralysis. Minn. Med., 1922, v, 706–712.
61. Loose bodies in joints and bursæ due to synovial osteochondromatosis. Jour. Bone and Joint Surg., 1923, v, 400–424. (With H. T. Jones.)
62. Nonunion in fractures: the massive bone graft. Jour. Am. Med. Assn., 1923, lxxxi, 463–468.
63. Chronic sclerosing osteitis. Jour. Am. Med. Assn., 1924, lxxxii, 945–949.
64. The commoner deformities following fractures. Journal-Lancet, 1924, xliv, 205–210.
65. Osteochondromatosis of the hip-joint. Minn. Med., 1924, vii, 261–265.
66. Surgical orthopedic clinic: Left talipes calcaneus due to infantile paralysis; astragalectomy. Infantile paralysis; varus deformity following astragalectomy. Recent fracture of the lower third of the right femur; reduction. Infected fracture of the left femur; removal of plate and screws. Synovectomy for destructive arthritis of the left knee. Congenital dislocation of the hip; reduction of left hip. Surg. Clin. N. Amer., 1924, iv, 557–571.

67. United fractures and the massive bone graft. (Editorial.) Surg., Gynec., and Obst., 1924, xxxviii, 835.
68. Surgery in cases of tuberculous arthritis. Journal-Lancet, 1924, xliv, 411–416.
69. Brodie's abscess. Arch. Surg., 1924, ix, 504–515. (With H. E. Simon.)
70. Fractures of the hip. Minn. Med., 1924, vii, 786–791.
71. Arthroplasty. Minn. Med., 1925, viii, 97–103. (Editorial.) Surg., Gynec., and Obst., 1926, xlii, 140–141.
72. Pseudarthrosis of the tibia in children. Jour. Bone and Joint Surg., 1925, vii, 340–354.
73. Surgical treatment of lesions of the hip and knee and nonunion of the radius. Surg. Clin. N. Amer., 1925, v, 685–699.
74. Treatment following orthopedic surgery. (With P. N. Jepson.) In Bartlett, W.: Postoperative care of surgical patients. (In press.) 2d ed.
75. Progress in orthopedic surgery. Tr. Assn. Res. and Ex-Res. Phys. Mayo Clinic, 1925, vi, 323–326.
76. Ununited fractures. Jour. Am. Med. Assn., 1926, lxxxvi, 81–86.
77. Intrinsic derangements of the knee-joint. South. Med. Jour., 1926, xix, 633–637.
78. "Tenosuspension" for habitual dislocation of the shoulder. Surg., Gynec., and Obst., 1926, xliii, 18–25.
79. The cause and treatment of ununited fractures. South Med. Jour., 1926, xix, 746–750.
80. Chronic osteitis of the semilunar bone (Kienböch's disease). Jour. Bone and Joint Surg., 1926, viii, 504–506.

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Bibliography.—1. Avian tuberculosis in man. South. Med. Jour., 1926, xix, 29–34. (With C. H. Mayo.)
2. Carcinoma of the right segment of the colon. Ann. Surg., 1926, lxxxii, 357–363. (With C. H. Mayo.)
3. A day in Dr. Charles H. Mayo's clinic. Internat. Clin., 1926, 36 s., i, 177–188.

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Bibliography.—1. Observations on 1,000 consecutive cases of anesthesia in the service of Dr. A. J. Ochsner, Augustana Hospital. Chicago Med. Recorder, 1898, xv, 397–403.
2. Hypernephroma: report of three cases. Am. Jour. Med. Sc., 1905, cxxix, 1009–1015.
3. Teratoma of the thyroid gland. Am. Jour. Med. Sc., 1906, cxxxi, 1015–1020.

4. Diverticulum of the vermiform appendix. Jour. Am. Med. Assn., 1907, xlix, 2135–2137. Also: Tr. Chicago Path. Soc., 1907–1908, vii, 94–99.
5. Experimental parotitis. Arch. Int. Med., 1909, iv, 201–217; also, Jour. Am. Med. Assn., 1908, li, 668–670.
6. Mixed tumors of the uterus. Tr. Chicago Path. Soc., 1908–1909, viii, 5–7.
7. Mixed tumors of the uterine body. Surg., Gynec., and Obst., 1910, x, 463–467.
8. Administration of general anesthetics with special reference to ether and chloroform. Jour. Am. Med. Assn., 1911, lvi, 1312–1315.
9. The selection of an anesthetic. Surg., Gynec., and Obst., 1912, xv, 223–226.
10. Administration of alkaloids before anesthesia. Jour. Am. Med. Assn., 1913, lxi, 834–837.
11. Accidents during and following general anesthesia. Railway Surg. Jour., 1913–1914, xx, 243–249.
12. Alkaloidal medication in relation to anesthesia and analgesia. Am. Jour. Surg., 1915, xxix, Anes. Suppl., 141–144.
13. Accidents during and following general anesthesia. Am. Jour. Surg., 1916, xxx, 297–302.
14. Ether, simplicity in its administration. Jour. Am. Med. Assn., 1916, lxvi, 1376–1379.
15. A new anesthetic shield. Jour. Am. Med. Assn., 1917, lxviii, 116–125.
16. The open method of etherization. Am. Jour. Surg., 1918, xxxii, Anes. Suppl., 2–6.
17. The anesthetist on the hospital staff. Am. Jour. Surg., 1919, xxxiii, Anes. Suppl., 68–71.
18. Anesthesia in relation to medical schools and hospitals. Am. Jour. Surg., 1921, xxxv, Anes. Suppl., 50–51.
19. Postoperative lung complications. Jour. Am. Med. Assn., 1922, lxxix, 339–342.
20. Explosions of anesthetic gases; method for control of electrostatic conditions. Jour. Am. Med. Assn., 1925, lxxxv, 1788–1790.
21. The anesthetic problem in its relation to the hospital. Anesth. and Analg., 1926, v, 13–15.

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Bibliography.—1. Surgery of acute conditions of the gall-bladder. Minn. Med., 1922, v, 687–692. (With E. S. Judd.)
2. Malignant tumors of the thyroid. Ann. Surg., 1924, lxxix, 488–494.
3. False diverticulum of the duodenum containing gallstones, with cholecyst-diverticular fistula. Surg. Clin. N. Amer., 1925, v, 807–811. (With V. C. Hunt.)

Herz, Ralph, Ph.G., B.A., M.D., was born November 24, 1889 in Hungary; received the degree of Ph.G. in 1911, of B.A. in 1913, and of M.D. in 1917, from Western Reserve University, Cleveland, and was intern in the Metropolitan Hospital, New York City, eighteen months, from 1917 to 1919. He entered The Mayo Foundation January 1, 1919 as a fellow in surgery; his services included neurology, one month; general diagnosis, seven months; surgical pathology, four months; surgery, six months, and postoperative care, three months. He spent three months of 1919 in California on leave of absence. He left The Mayo Foundation January 1, 1921 to practice surgery in New York City, but is now practicing in Cleveland. He is a member of the American Medical Association and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. His address is 8935 Buckeye Road, Cleveland, Ohio.

Ralph Herz

Hess, Charles L., B.S., M.S., M.D., was born April 11, 1887 in St. Peter, Minnesota; received the degree of B.S. in 1910, and of M.S. in 1911, from the University of Chicago, of M.D. in 1914 from Northwestern University, Chicago; practiced in Chicago six months in 1915; was laboratory assistant in the department of anatomy, Northwestern Medical School, in 1915, and was intern in Cook County Hospital, Chicago, eighteen months from 1915 to 1916. He came to The Mayo Foundation September 1, 1916 as an assistant in experimental bacteriology. He became a fellow in surgery April 1, 1917; his services included general diagnosis, ten months, and surgery, four months. He left The Mayo Foundation May 30, 1918 to enter military service. He was commissioned First Lieutenant, Chemical War Service, in the Medical Corps, U. S. A. He was assistant surgeon at the Holbrook Sohmer Clinic, Mankato, Minnesota, in 1920, and is now practicing surgery in Bay City, Michigan. He is a member of the Bay County Medical Society, the Michigan State Medical Society, the American Physiological Society, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Amelia Bontell in 1918. His address is 208 Davidson Building, Bay City, Michigan.

Charles L. Hess

Bibliography.—1. Contributions to the physiology of the lymph, XVIII. The relation of the pancreas to the lipase of the blood and lymph. Jour. Biol. Chem., 1911–1912, x, 381–388.

2. On the relation of glycosuria to the pancreas. Quart. Bull. Northwest. Univ. Med. Sch., 1911–1912, xiii, 80–88. (With H. McGuigan.)

3. Isocalycanthin and its quarternary base. Jour. Pharmacol. and Exper. Therap., 1911–1912, iii, 441–454. (H. McGuigan.)

4. Glycolysis after pancreatectomy and with the addition of antiseptics. Am. Jour. Physiol., 1912–1913, xxx, 341–351. (With H. McGuigan.)

5. Hexamethylenamin. Arch. Int. Med., 1914, xiii, 853–855. (With H. McGuigan.)

6. The dialysis of the normal circulating blood. Proc. Am. Physiol. Soc., 1914, p. xii. (With H. McGuigan.)

7. The multiple unit system as a source of electricity for laboratories. Science, 1914, xl, 566–569.

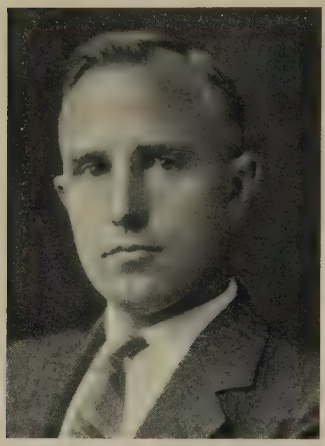
8. The condition of the sugar in the blood. Jour. Pharmacol. and Exper. Therap., 1914–1915, vi, 45–55. (With H. McGuigan.)

9. The diastases of the blood. Am. Jour. Physiol., 1914–1915, xxxvi, 359. (With H. McGuigan.)

10. The conduction within the spinal cord of the afferent impulses producing pain and the vasomotor reflexes. Am. Jour. Physiol., 1915, xxxviii, 128–152. (With S. W. Ranson.)

11. An epidemic of septic sore throat due to milk. Jour. Am. Med. Assn., 1917, lxviii, 1305–1307. (With E. C. Rosenow.)
12. The elective localization of streptococci from epidemic poliomyelitis. Jour. Infect. Dis., 1918, xxii, 313–344. (With E. C. Rosenow and E. B. Towne.)

Higgins, George M., B.S., M.A., Ph.D., was born December 19, 1890 at Elk Grove, Illinois; received the degree of B.S. in 1914 from Knox College, Galesburg, Illinois, and the degree of M.A. in 1916 and Ph.D. in 1919 from the University of Illinois; was instructor in zoölogy at the University of Illinois from 1919 to 1921, and assistant professor of biology at Knox College from 1921 to 1924. He came to The Mayo Foundation July 1, 1924 as first assistant in the Section on Experimental Surgery and Pathology, and as instructor in experimental biology, The Mayo Foundation, Graduate School, University of Minnesota. He is a member of American Association for the Advancement of Science, the American Society of Anatomists, the American Society of Zoölogists, the Illinois State Academy of Science, Tau Kappa Epsilon, Phi Beta Kappa, and Sigma Xi, and associate member of the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Eula M. Perrego April 25, 1918. His address is Rochester, Minnesota.



George M. Higgins

Bibliography.—1. The nasal organ in amphibia. Univ. of Illinois Biol. Mon., 1920, vi, 1–71.
2. The morphology of the antorbital process in the urodeles. Tr. Illinois State Acad. Sci., 1920, xiii, 292–298.
3. Development of the primitive reptilian vertebral column, as shown by a study of alligator Mississippiensis. Am. Jour. Anat., 1923, xxxi, 373–395.
4. The anatomy of a double monster pig. Tr. Illinois State Acad. Sci., 1923, xvi, 111–121.
5. On the lymphatic system of the newborn rat (Mus Norvegicus Albinus). Anat. Rec., 1925, xxx, 243–258.
6. The jugular lymph sac in the albino mouse. Am. Jour. Anat., 1926, xxxvii, 95–125.
7. The biliary tract of certain rodents with and without gall-bladders. Anat. Rec., 1926, xxxii, 89–111.
8. An anomalous cystic duct in the dog. Anat., Rec., 1926, xxxiii, 35–39.

Higley, Edith T., B.S., was born October 11, 1899 in Waukegan, Illinois; received the degree of B.S. in 1912 from the University of Chicago, and taught biology in the High School at Waukegan, Illinois, until entering The Mayo Foundation September 1, 1920 as a fellow in bacteriology. She worked in the laboratories of clinical pathology for twenty-two months, and left the Foundation July 15, 1922. She has since been in charge of the pathological laboratories in the Victory Memorial Hospital, Waukegan, Illinois. She is a member of Phi Beta Kappa. Her address is 106 North Utica Street, Waukegan, Illinois.

Edith T. Higley

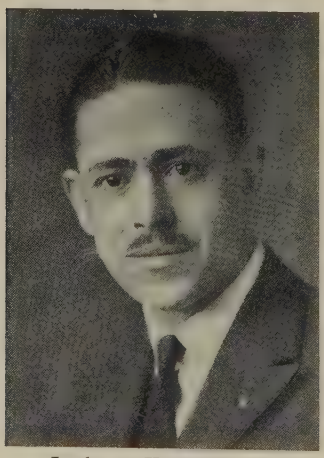
Hillman, Charles C., B.S., M.D., was born August 27, 1887 in Almyra, Arkansas; received the degree of B.S. in 1907 from the University of Arkansas, Little Rock, Arkansas; attended Tulane University in New Orleans in 1907 and 1908, and later the University of Chicago and Rush Medical College, where he received the degree of M.D. in 1911; was intern at the Cook County Hospital in Chicago from June, 1911 to October, 1912, and then attended the Army Medical School in Washington, D. C., graduating in 1913. During the war he served for eighteen months in the Medical Corps, U. S. A., with the rank of Lieutenant-Colonel. He came to The Mayo Foundation July 1, 1923 as a government fellow in medicine, and after one year of service in general diagnosis he left the Foundation to go to Fort Snelling, Minnesota, as Major in the Medical Corps. In September, 1924 he was transferred to Fort Riley, Kansas. He is a member of the American Medical Association, the Association of Military Surgeons, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Phi Rho Sigma. He married Martha Wood February 13, 1911. His address is Fort Riley, Kansas.

Charles C. Hillman

Hoke, Clarence C., B.A., M.A., M.D., was born September 25, 1885 in Emmitsburg, Maryland; received the degree of B.A. in 1910, and of M.A. in 1912, from Mt. St. Mary's College, Emmitsburg, Maryland, and of M.D. in 1914 from the University of Maryland; was surgical intern in the City Hospital, Baltimore, from July, 1914 to July, 1916 (resident surgeon the second year), and was surgical intern in Johns Hopkins Hospital, Baltimore, from July, 1916 to February, 1917. He entered The Mayo Foundation February 1, 1917 as a fellow in surgery; his services included general diagnosis, one year; surgery, eighteen months; orthopedic diagnosis, three months; urology, three months; roentgenology, five months; neurology, three months, and orthopedic surgery, three months. His services were interrupted by the war. From August, 1918 to February, 1919 he was First Lieutenant, Medical Officers' Reserve Corps, Fort Oglethorpe, Georgia. He left The Mayo Foundation July 1, 1921 to practice surgery with Dr. James C. Brogden, at Tulsa, Oklahoma, and has now opened his own office for the practice of surgery and diagnosis. He is a member of the Tulsa County Medical Society, the Oklahoma State Medical Association, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Chi Zeta Chi. His address is Petroleum Building, Tulsa, Oklahoma.

Clarence C. Hoke

Holloway, Jackson K., A.B., M.D., was born December 16, 1894 in Raleigh, North Carolina; received the degree of A.B. from the University of North Carolina in 1917, and of M.D. from the University of Pennsylvania in 1920; was intern at the Hospital of the Protestant Episcopal Church in Philadelphia from August, 1920 to August, 1922, and house surgeon at the Rood Hospital, Hibbing, Minnesota, from August, 1922 to January 1, 1923, when he entered The Mayo Foundation as a fellow in surgery. His services have included general diagnosis, seven months; surgical pathology, six months; research work in experimental pathology, three months; urology, eight months, and operative surgery, one year. He was



Jackson K. Holloway

appointed first assistant in one of the divisions of surgery October 1, 1925. He is a member of the Olmsted County Medical Society and the Minnesota State Medical Association. He married Martha Aldrich June 5, 1926. His address is Rochester, Minnesota.

Bibliography.—1. Spontaneous lateral ventral hernia. Ann. Surg., 1922, lxxv, 677–685.
2. Acute parenchymatous glossitis, with report of three cases from the Episcopal Hospital, Philadelphia. South. Med. and Surg., Charlotte, N. C., 1922, lxxxiv, 354–362.
3. Hemorrhagic purpura. Med. Clin. N. Amer., 1923, vii, 241–248. (With H. Z. Giffin.)
4. Comparison of blood platelet count in splenic arterial and venous blood. Am. Jour. Med. Sc., 1924, clxviii, 723–728. (With L. M. Blackford.)
5. A review of twenty-eight cases of purpura hæmorrhagica with splenectomy. Am. Jour. Med. Sc., 1925, clxx, 186–204. (With H. Z. Giffin.)
6. Chronic prostatitis with special reference to its focal aspects. Med. Jour. and Rec., 1925, cxxii, 23–27; 64–67. (With W. H. Von Lackum.)
7. The effect of diuretics on transplanted kidneys. Jour. Urol., 1926, xv, 111–131.

Hoon, Merle R., B.A., M.D., M.S. in Surgery, was born April 3, 1892 in Mercer, Pennsylvania; received the degree of B.A. from Westminster College, New Wilmington, Pennsylvania, in 1914; attended the University of Michigan from 1914 to 1916; received the degree of M.D. from the University of Pennsylvania in 1918, and of M.S. in Surgery from the University of Minnesota in 1922, and was intern in the Western Pennsylvania Hospital, Pittsburgh, from June, 1918 to July, 1919. He entered The Mayo Foundation August 10, 1919 as a fellow in surgery; his services included general diagnosis, eleven months; radium and roentgen-ray therapy, three months; surgical pathology, six months; neurology, three months; gynecology, three months (part time); postoperative care, three months (part time), and operative surgery, eighteen months. He left The Mayo Foundation January 1, 1923, to establish a practice in surgery at Pittsburgh. He is a member of the Allegheny County Medical Society, the Medical Society of the State of Pennsylvania, the Pittsburgh College of Physicians, the American Medical Association, the Osler Historical Medical Society, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Phi Chi, and a diplomate of the National Board of Medical Examiners. He married Edna M. Holliday June 6, 1925. His address is 5074 Jenkins Arcade, Pittsburgh, Pennsylvania.

Merle R. Hoon

Bibliography.—1. Solid sarcoma of the ovary. Pennsylvania Med. Jour., 1922, xxvi, 30–32.
2. Solid carcinoma of the ovary. Ann. Surg., 1922, lxxvi, 768–775.
3. Fibromata of the ovary. Surg., Gynec., and Obst., 1923, xxxvi, 247–251.
4. Pancreatic cysts. Atlantic Med. Jour, 1926, xxiv, 782–783.

Horgan, Edmund J., M.D., M.S. in Surgery, F.A.C.S., was born January 28, 1884 in Fairfax, Virginia; received the degree of M.D. from George Washington University, Washington, D. C., in 1908, and of M.S. in Surgery from the University of Minnesota in 1919; was extern six months, and intern three months in 1908 at Emergency Hospital, Washington, D. C.; worked in the food and drug laboratory, Bureau of Chemistry, Department of Agriculture, New Orleans University, from September, 1908 to May, 1909; practiced at Elkins and Jennington, West Virginia, from June, 1909 to June, 1913, and was assistant house surgeon and later house surgeon at Columbia Hospital, Washington, D. C., in 1913 and 1914. He entered The Mayo Foundation January 1, 1915 as a fellow in surgery; his services included pathologic anatomy, one year; surgical pathology, three months, and surgery, three years and eight months. From August 21 to December 21, 1918 he served as Captain, Medical Corps, A. E. F., stationed at Base Hospital, Camp Lee, Virginia, and at Hoboken, New Jersey, with surgical group 9, ready for embarkation. He returned to the Foundation to complete his fellowship, and left May 15, 1920, to practice surgery in San Francisco. He is now practicing in Washington, D. C. He is a member of the American Medical Association, the American College of Surgeons, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Hilda L. Larrabee June 20, 1923. His address is Washington Medical Building, 1801 I Street, Washington, D. C.

Edmund J. Horgan

Bibliography.—1. The histogenesis of carcinoma in the islets of the pancreas. Jour. Lab. and Clin. Med., 1920, v, 429–442.
2. Retroperitoneal lipomas: report of twelve cases. Surg., Clin. N. Amer., 1921, i, 1451–1464. (With J. C. Masson.)
3. Accessory pancreatic tissue: report of two cases. Arch. Surg., 1921, ii, 521–534.
4. Splenectomy in the treatment of splenic anemia. Virginia Med. Month. 1923, xlix, 652–655.
5. The utilization of the rubber catheter in intestinal anastomosis. Surg., Gynec., and Obst., 1923, xxxvi, 565–568.
6. Diagnosis and treatment of acute superficial circumscribed abscess. Internat. Clin., 1926, 36 s., i, 189–198.

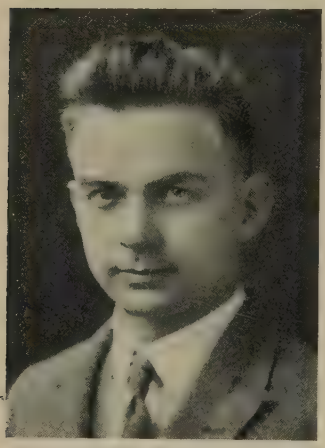
Horwitz, Alec, B.A., M.D., was born April 29, 1900 in Minsk, Russia; received the degree of B.A. in 1920, and of M.D. in 1923, from George Washington University, Washington, D. C., and interned at the Hebrew Hospital in Baltimore from July 1, 1923 to July 1, 1924, when he entered The Mayo Foundation as a fellow in surgery. His service has been eighteen months of general diagnosis. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the American Medical Association, Phi Alpha, and Phi Delta Epsilon. He married Jean S. Himmelfarb June 17, 1924. His address is Rochester, Minnesota.

Alec Horwitz

Houck, Knut H., B.S., M.D., was born March 13, 1896 in La Crosse, Wisconsin; attended the University of Wisconsin from 1914 to 1917; received the degree of B.S. in 1921, and of M.D. in 1922 from Northwestern University, Chicago, and was intern at Kings County Hospital in Brooklyn, New York, for eighteen months, coming to The Mayo Foundation February 21, 1923 as a fellow in medicine. He transferred his major to neurology September 4, 1923. His services included general diagnosis, seven months; neurology, fifteen months, and pathologic anatomy, six months. He left The Mayo Foundation October 1, 1925, and is now medical intern in psychiatrics at St. Elizabeth's Hospital, Washington, D. C. He is a member of the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Alpha Omega Alpha, and Nu Sigma Nu. He married Gladys R. Walter February 7, 1923. His address is St. Elizabeth's Hospital, Washington, D. C.

Knut H. Houck

Huffman, Lester D., B.S., M.D., was born September 17, 1890 in Fairland, Indiana; received the degree of B.S. in 1914, and of M.D. in 1916, from Indiana University, Bloomington, Indiana, and interned at the Indianapolis City Hospital from 1916 to April, 1917, when he joined the medical corps, U. S. N. He completed his service in May, 1921 as Lieutenant, senior grade, United States Marine Corps, A. E. F. He then entered The Mayo Foundation May 1, 1921 as a fellow in medicine, but left on account of ill health. He returned August 29, 1922, and after two months of service went to Albuquerque, New Mexico, for his health. He re-entered The Mayo Foundation April 1, 1923, and his services thus far have included general diagnosis fourteen months; neurology, six months, and medical hospital service, fifteen months. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the American Medical Association, and Phi Beta Pi. He married Nellie Madden May 29, 1919. His address is Rochester, Minnesota.



Lester D. Huffman

Hufford, Alvin R., A.B., B.S., M.D., M.S. in Physiology, was born May 22, 1896 in Washington County, Pennsylvania; attended Waynesburg College, Waynesburg, Pennsylvania, from 1914 to 1915; received the degree of A.B. in 1918 from Valparaiso University, Indiana, and of B.S. and M.D. in 1922, and of M.S. in Physiology in 1923, from Loyola University, Chicago; was intern at the Mercy Hospital, Pittsburgh, from June, 1922 to December, 1923, and did research laboratory work in gastric physiology at Loyola University before entering The Mayo Foundation, January 1, 1924, as a fellow in medicine. His service thus far has included two years of general diagnosis with part time in experimental medicine. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, and Phi Beta Pi, and a diplomate of the National Board of Medical Examiners. He married Agnes Stiers November 5, 1918. His address is Rochester, Minnesota.

Alvin R. Hufford

Hundling, Herman W., B.A., M.D., M.S. in Surgery, F.A.C.S., was born April 2, 1891 in Breda, Iowa; received the degree of B.A. in 1912, and of M.D. in 1915, from the University of Iowa, and of M.S. in Surgery in 1923 from the University of Minnesota, and was intern in the Montreal General Hospital from August, 1915 to August, 1917. He entered The Mayo Foundation August 28, 1917 as a fellow in surgery; his services included pathologic anatomy, eleven months; general diagnosis, eleven and one-half months; orthopedic diagnosis, three months; operative surgery, two years and three months, and regional anesthesia, three months. His services were interrupted by the war; from June, 1918 to July, 1919 he was Captain in the pathological section of the Medical Corps, A. E. F. in France. He left The Mayo Foundation October 15, 1923, and has since been connected with the Polyclinic, Memphis, Tennessee. He is a member of the Memphis and Shelby County Medical Society, the Tennessee State Medical Association, the Southern Medical Association, the American College of Surgeons, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Rebecca S. Burnett March 10, 1925. His address is 20 South Dunlap Street, Memphis, Tennessee.

Herman W. Hundling

Bibliography.—1. Ventral tumors of the sacrum. Surg., Gynec., and Obst., 1924, xxxviii, 518–533; also Jour. Tennessee Med. Assn., 1924, xvii, 35–41.

2. Local anesthesia in operations on the neck. A new method of cervical plexus block. Surg., Gynec., and Obst., 1924, xxxviii, 806–818. (With W. R. Meeker.)

Hunt, India, B.A., M.D., was born August 11, 1895 in Snowville, Pulaski County, Virginia; received the degree of B.A. in 1917 from Agnes Scott College, Decatur, Georgia, and of M.D. in 1921 from the Woman's Medical College of Pennsylvania, Philadelphia; was intern at the Memorial Hospital, Richmond, Virginia, in 1921 and 1922; resident at the Blue Ridge Sanitorium, Charlottesville, Virginia, in 1922 to 1923; instructor in pathology and bacteriology at the University of Virginia in 1923 to 1924, and state tuberculosis clinician at Richmond from June, 1924 to January 1, 1925, when she entered The Mayo Foundation as a fellow in medicine. Her services included general diagnosis, one year, and medical hospital service, six months. She left the Foundation June 26, 1926 for her home in Richmond, Virginia. She is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the Albemarle County Medical Society, the Medical Society of Virginia, and the American Medical Association. She married Dr. Franklin G. Balch September 17, 1926. Her address is 210 Riverway, Boston, Massachusetts.

India Hunt

Hunt, Verne C., B.S., M.D., F.A.C.S., M.S. in Surgery, was born May 10, 1888 in La Porte City, Iowa; received the degree of B.S. from Iowa State University in 1911, of M.D. from Rush Medical College, University of Chicago, in 1913, and of M.S. in Surgery from the University of Minnesota in 1918, and was intern in the Los Angeles County Hospital from July 1, 1913 to January 1, 1915. He entered The Mayo Foundation April 1, 1915 as a fellow in surgery; his services included general diagnosis, one year; surgery, two years and five months. In January, 1919 he was appointed head of a section in the Division of Surgery, Mayo Clinic. He is assistant professor of surgery, The Mayo Foundation, Graduate School, University of Minnesota. He is a member of the Olmsted County Medical Society, the Southern Minnesota Medical Association, the Minnesota State Medical Association, the Western

Verne C. Hunt

Surgical Association, American College of Surgeons, the American Medical Association, Central Branch of the American Urological Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Nu Sigma Nu, and Sigma Xi. He married Mona Sibeck December 30, 1922. His address is Rochester, Minnesota.

Bibliography.—1. Reaction following blood transfusion by the sodium citrate method. Texas State Jour. of Med., 1918, xiv, 192–195.
2. Torsion of appendices epiploicæ. Ann. Surg., 1919, lxix, 31–46.
3. Benign hypertrophy of the prostate. Journal-Lancet, 1920, xl, 267–273.
4. A huge diverticulum of the bladder. Surg. Clin. N. Amer., 1921, i, 1267–1270.
5. Acute conditions of the abdomen. Surg. Clin. N. Amer., 1921, i, 1473–1481.
6. Complications of prostatectomy. Minn. Med., 1921, iv, 478–483.
7. Myoma of the rectum. Ann. Surg., 1921, lxxiv, 236–244.
8. Surgery of the prostate. Minn. Med., 1921, iv, 544–548.
9. Submucous ulcer of the bladder and its surgical treatment. Minn. Med., 1921, iv, 703–707.
10. Prognosis in cases of cancer and control of cancer. Med. Insurance and Health Conservation, 1920–1921, xxx, 307–310.
11. Complications of the surgical removal of stones from the kidney and ureter. Journal-Lancet, 1923, xliii, 4–7.
12. End results of suprapubic prostatectomy. Jour. Kansas Med. Soc., 1923, xxiii, 201–204.
13. Cancer of the uterus. Journal-Lancet, 1923, xliii, 566–570.
14. Suprapubic prostatectomy as a one-stage operation. (Editorial.) Surg., Gynec., and Obst., 1923, xxxvii, 846–847.
15. Perforating duodenal ulcer. Surg. Clin. N. Amer., 1924, iv, 325–329.
16. Surgery of the prostate. Jour. Iowa State Med. Soc., 1924, xiv, 171–174.
17. The surgical treatment of tuberculosis of the genito-urinary tract, including the kidneys, bladder, testicles, and seminal vesicles. Arch. Surg., 1924, viii, 811–818.
18. Factors of safety in prostatic surgery. Jour. Iowa State Med. Soc., 1924, xiv, 450–453.
19. Perinephritic abscess. Jour. Am. Med. Assn., 1924, lxxxiii, 2070–2074.
20. Surgery of the lower urinary tract. Illinois Med. Jour., 1925, xlvii, 222–227.
21. Disposal of the ureter in surgical excision of malignant tumors of the bladder. Jour. Urol., 1925, xiv, 19–31.
22. False diverticulum of the duodenum containing gallstones, with cholecyst-diverticular fistula. Surg. Clin. N. Amer., 1925, v, 807–811. (With W. P. Herbst.)
23. The relationship of the clinical pathologist to surgical practice. California and West. Med., 1925, xxiii, 1293–1296.
24. Relationship of preliminary treatment to mortality rate in suprapubic prostatectomy. Jour. Arkansas Med. Soc., 1925, xxii, 101–107.
25. The management and mortality rate in relation to preliminary treatment of benign hypertrophy of the prostate. Proc. Inter-State Post-Graduate Med. Assembly N. Amer., 1925, 424–426.
26. Recent progress in urologic surgery. Tr. Assn. Res. and Ex-Rex. Phys. Mayo Clinic, 1925, vi, 327–331.
27. Suprapubic prostatectomy. California and West. Med., 1926, xxv, 325–329.
28. Treatment of the surgical patient handicapped by urinary obstruction. Surg., Gynec., and Obst., 1926, xlii, 187–190.
29. Hemostasis in suprapubic prostatectomy. Ann. Surg., 1926, lxxxiii, 381–391.

Hutchinson, Charles J., B.A., M.D., was born January 21, 1891 in Minneapolis, Minnesota; received the degree of B.A. in 1913, and of M.D. in 1917, from the University of Minnesota; served as First Lieutenant in the United States Navy, Medical Corps, two and one-half years, and in the United States Naval Reserve Forces three years. He entered The Mayo Foundation October 1, 1920 as a fellow in medicine; his services included general diagnosis, two years; neurology, six months, and dermatology and syphilology, three months. He left The Mayo Foundation July 1, 1923, and was connected with the Kenosha Clinic, Kenosha, Wisconsin, from January, 1924 to March, 1925. He is now practicing internal medicine in Minneapolis. He is a member of the Hennepin County Medical Society, the Minnesota State Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. His address is 820 Donaldson Building, Minneapolis, Minnesota.

Charles J. Hutchinson

Hutton, Samuel T., was born August 22, 1875 in Westtown, Pennsylvania; received his education at the Westtown Boarding School, Pennsylvania; was superintendent of Queen and Company's electrical laboratory, Philadelphia, from 1897 to 1900; manufacturer of roentgen-ray equipment in Chicago from 1901 to 1904, and superintendent of and electrical engineer for the Scheidel Western x-Ray Coil Company, Chicago, from 1904 to 1911, during which time he received seven patents on roentgen-ray improvements. He came to the Mayo Clinic May 19, 1911 as electrical technician, and was appointed associate roentgenologist in 1917. He left the Mayo Clinic in January, 1920, to become roentgenologist for Dr. Harold E. Alexander, Saskatoon, Saskatchewan, Canada. In 1921 he became roentgenologist for Dr. John L. Butsch, of the Buffalo Clinic, Buffalo, and has since opened his own roentgenologic laboratory in Buffalo, New York. He married Wilma G. Christie November 9, 1904. His address is 468 Delaware Avenue, Buffalo, New York.

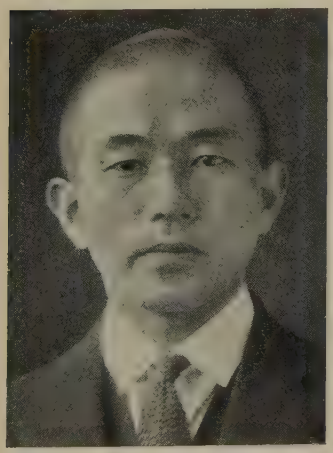
Samuel T. Hutton

Hyer, Carl A., B.S., M.D., was born October 28, 1891 in Bloomingburg, Ohio; received the degree of B.S. from Ohio Wesleyan University, Delaware, Ohio, in 1913, and of M.D. from Ohio State University in 1920, and was intern in the Protestant Hospital, Columbus, Ohio, from May, 1920 to June, 1921. He entered The Mayo Foundation June 27, 1921 as a fellow in medicine; his services included general diagnosis, fifteen months; medical hospital residence, six months, and roentgenology, fourteen months. He left The Mayo Foundation June 1, 1924, and is now practicing in Columbus, Ohio. He is a member of the Columbus Academy of Medicine, the Ohio State Medical Association, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Florence Bradley December 23, 1921. His address is 336 East State Street, Columbus, Ohio.

Carl A. Hyer

Bibliography. –1. Cancer of the stomach. Ohio State Med. Jour., 1925, xxi, 717–720.

Ibuka, Kenji, M.D., was born December 24, 1890 in Tokyo, Japan; attended the Tokyo First Higher School from 1909 to 1912, and later the Imperial University of Tokyo where he received the degree of M.D. in 1916. From July, 1917 to September, 1918, he was in military service in the Tokyo Military Hospital, and was a special student in the pathological institute of the Imperial University of Tokyo for one year, and in the surgical clinic for two years, from 1920 to 1923. He came to The Mayo Foundation January 1, 1924 as a special graduate student from the Japanese Army, and after fifteen months in experimental physiology went to Europe for six months of observation in the clinics of England, France, and Germany. He is now serving in the Tokyo Sceond Military Hospital, with the rank of Captain. He is a member of the Japanese Surgical Society and the Japanese Pathological Society. He married Iso Turuda November 25, 1918. His address is 890 Sendagaya Machi, Tokyo, Japan.



Kenji Ibuka

Bibliography.—1. Atypical proliferation of epithelium after implanting paraffin with soot in rabbits' lungs. Mitt. a. d. med. Fakult. d. k. Univ. zu Tokyo, 1922, xxx, 35–50.
2. *x*-Ray findings of the stomach after gastrectomy and gastrojejunostomy. Jour. Jap. Surg. Soc., 1923.
3. Function of the autogenous kidney transplant. Am. Jour. Med. Soc., 1926, clxxi, 407–420.
4. Function of the homogenous kidney transplant. Am. Jour. Med. Sc., 1926, clxxi, 420–423.

Inlow, William DeP., B.S., M.S., M.D., was born November 27, 1890 in Manilla, Indiana; attended Indiana University from 1910 to 1911; received the degree of B.S. in 1915, and of M.S. in 1917, from the University of Chicago, and of M.D. from Rush Medical College, University of Chicago, in 1917; was First Lieutenant in the Sanitary Train at Camp Meade, Maryland, during the war; was intern in Cook County Hospital, Chicago, from May, 1917 to August, 1918, and from February, 1919 to July, 1919. He entered The Mayo Foundation in July, 1919 as a fellow in surgery; his services included general diagnosis, eighteen months; orthopedics, three months; surgical pathology, three months, operative surgery, one year, and experimental surgery and pathology, three months, the latter at the same time with other services. He had a year's leave of absence, beginning July, 1921, which was spent in graduate medical study in the Universities of Vienna and Paris. In the University of Vienna he studied pathologic anatomy with Professor Erdheim, operative obstetrics with Professor Peters, and gastric operations with Prof. Hans Finsterer, besides devoting some time to lectures. He devoted three months to general lectures and clinics in the University of Paris. He left The Mayo Foundation in April, 1923, to practice in Shelbyville, Indiana. He is a member of the Indiana State Medical Association, the American Association for the Advancement of Science, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, the Osler Medical Historical Society and Sigma Xi, and a diplomate of the National Board of Medical Examiners. He married Harriet N. Pierson October 3, 1925. His address is 131 West Washington Street, Shelbyville, Indiana.

William DeP. Inlow

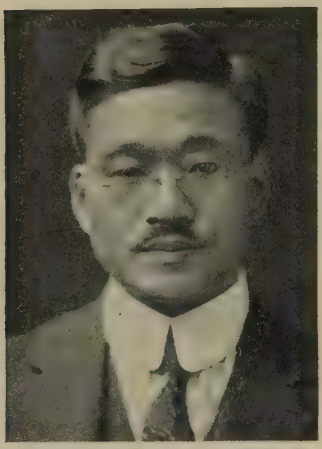
Bibliography.—1. The spleen and digestion. Study I. The spleen and gastric secretion. Am. Jour. Med. Sc., 1921, clxii, 325–348.
2. A technic for the establishment of a permanent pancreatic fistula with the secretion of inactive proteolytic ferment. Jour. Lab. and Clin. Med., 1921, vii, 86–90.

3. Study II. The spleen and pancreatic secretion. Am. Jour. Med. Sc., 1922, clxiv, 29–44.
4. Study III. The spleen in inanition; the effect of the removal of the external secretion of the pancreas on the spleen. Am. Jour. Med. Sc., 1922, clxiv, 173–188.
5. The spleen and digestion. Study IV. The spleen and biliary secretion; the reaction bile-pigment secretion following splenectomy. Am. Jour. Med. Sc., 1924, clxvii, 10–29.

Irwin, Hamner C., M.D., was born March 20, 1878 in Charlotte, North Carolina; attended the University of North Carolina from 1901 to 1903; received the degree of M.D. from the University of Maryland in 1905; was intern at St. Joseph's Hospital, Baltimore, from 1905 to 1907, and practiced at Roanoke Rapids, North Carolina, from 1907 to 1913. He entered the Mayo Clinic November 10, 1913 as a fellow in surgery; his services included pathology, seven months; surgery, two years, and general diagnosis, two months. He left The Mayo Foundation September 5, 1916 for military service. He served as Major in the Medical Corps, B. E. F., and was discharged from the United States Army with the rank of Lieutenant Colonel in the Medical Officer's Reserve Corps. He is now practicing surgery at Pocatello, Idaho. He is a member of the Idaho State Medical Association, the Tri-State Medical Association of the Carolinas and Virginia, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Helen Zarring July 23, 1921. His address is 311–314 Carlson Building, Pocatello, Idaho.

Hamner C. Irwin

Ito, Masayoshi, M.D., was born February 14, 1889 in Sendai City, Japan; received the degree of M.D. in 1916 from the Imperial University of Tokyo; was assistant professor for two years in the Department of Medical Pathology of the University of Tokyo, and assistant in the University Hospital of Tokyo from 1919 to 1922. He came to The Mayo Foundation June 15, 1922 as a Rockefeller Foundation fellow in medicine, and remained twenty-three and one-half months, working on metabolism with part time in medical hospital service for six months. He left The Mayo Foundation June 1, 1924, and is now a professor of medicine at the Government Medical College of Keijo (Seoul) and medical officer of the Chosen Government-General Hospital. He married Miss Kinn April 8, 1914. His address is Medical Department, Chosen Government-General Hospital, Seoul, Korea, Japan.



Masayoshi Ito

Bibliography.—1. One case of carcinoma papilliferum ovarii showing a typical histological feature of the so-called perithelioma. Iji-Shimbun, 1919, 1032–1033.

2. A clinical study of the phagocytic action of calcium chlorid on tuberculosis. Mitt. a. d. med. Fakult. d. k. Univ. zu Tokyo, 1920, xxv, 25–66. (With S. Nagai.)

3. Ueber die Verbreitung der arteriosklerotischen Veränderungen an den kleinen und kleinsten Arterienästen in verschiedenen Organen bei Schrumpfniere. Tr. Japanese Path. Soc., 1921, xi, 80–88.

4. Studies of chronic constipations. Jour. Japan Med. Assn., 1921.

5. Comparative investigations of clinical and histological data of chronic nephrosis and nephritis. Tokyo Med. Jour., 1922, xxxvi, Nos. 7 and 8.

Jackson, Arnold S., B.A., B.S., M.D., M.S. in Surgery, was born April 26, 1893 in Madison, Wisconsin; received the degree of B.A. in 1916, and of B.S. in 1917, from the University of Wisconsin, of M.D. from the College of Physicians and Surgeons, Columbia University, in 1919, and of M.S. in Surgery from the University of Minnesota in 1922, and was intern at the Madison General Hospital, Madison, Wisconsin, and at St. Luke's Hospital, New York City. He entered The Mayo Foundation March 20, 1919 as a fellow in Surgery; his services included general diagnosis, eighteen months; surgery, thirteen months; neurology, five months; medical hospital residence, three months, and surgical pathology, five months (several of these services overlapped). He left the Foundation July 1, 1922, and is practicing surgery in the Jackson Clinic. He is a member of the Dane County Medical Society, the State Medical Society of Wisconsin, the American Society of Regional Anesthesia, the Association for Study of Internal Secretions, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Pi Beta Phi, and Phi Delta Tau. He married Lora Ziezel December 25, 1917. His address is Jackson Clinic, Madison, Wisconsin.

Arnold S. Jackson

Bibliography.—1. The relation of hepatitis to cholecystitis. Minn. Med., 1921, iv, 377–382. (With W. C. MacCarty.)
2. Carcinoma of the appendix. Arch. Surg., 1923, vi, 653–660.
3. Diseases of the thyroid gland. Papers from the Mayo Foundation and the Medical School of the University of Minnesota, 1921, ii, 303.
4. Pseudo-exophthalmic goiter. Wisconsin Med. Jour., 1923, xxi, 412–413.
5. Multiple toxic adenoma of the thyroid. Wisconsin Med. Jour., 1923, xxi, 461–462.
6. Relation of basal metabolic rate to diseases of the thyroid gland. Am. Jour. Surg., 1923, xxxvii, 86–90. (With R. H. Jackson.)
7. Symptomatology, diagnosis and classification of goiter. Wisconsin Med. Jour., 1923, xxii, 13–21.
8. Myasthenia gravis. Jour. Am. Med. Assn., 1923, lxxxi, 114–115. (With A. D. Bates.)
9. Preoperative treatment of patients with exophthalmic goiter, with special reference to Lugol's solution of iodin. Am. Jour. Surg., 1923, xxxvii, 315–316.
10. Diagnosis of myxedema in adults. Treatment with thyroxin. Illinois Med. Jour., 1923, xliv, 415–421.
11. Postoperative treatment of toxic goiter. Jour. Iowa State Soc., 1924, xiv, 133–137.
12. Prevention and cure of goiter. With a review of 100 thyroidectomies performed in 1923. Wisconsin Med. Jour., 1924, xxii, 412–419.
13. Value of ligation in psychosis of exophthalmic goiter. Wisconsin Med. Jour., 1924, xxii, 426–427.

14. Iodin as a cause of hyperthyroidism. With a report of eighteen cases. Journal-Lancet, 1924, xliv, 324–328.
15. Real value of the basal metabolic rate. With analysis of 470 case reports. Med. Jour. and Rec., 1924, cxix, 105–107.
16. Lugol's solution of iodin in exophthalmic goiter. Internat. Jour. Med. and Surg., 1924, xxxvii, 131–133.
17. Hyperthyroidism complicating pregnancy. Ann. Clin. Med., 1924, ii, 303–311.
18. Observation based on 300 cases of colloid goiter. Wisconsin Med. Jour., 1924, xxiii, 149–151.
19. Conclusions based on a study of 4,000 cases of goiter. Ann. Surg., 1924, lxxix, 840–844.
20. Goiter, with especial reference to treatment with iodin. Ann. Clin. Med., 1925, iii, 487–493.
21. Iodin as an aid to surgery in the treatment of exophthalmic goiter. Lancet, 1925, i, 759–761.
22. Iodin hyperthyroidism. Conclusions based on a study of thirty-eight cases. Am. Jour. Med. Sc., 1925, clxx, 271–283.
23. The effect of the administration of iodin upon exophthalmic goiter. A study of seventy cases thus treated. Ann. Surg., 1925, lxxxxi, 739–747.
24. Iodin in the treatment of goiter. Journal-Lancet, 1925, xlv, 133–137.
25. Surgical problems in the management and treatment of toxic goiter. Wisconsin Med. Jour., 1925.
26. Local anesthesia in goiter operations. Conclusions based on a study of 318 cases. Surg., Gynec., and Obst., 1925.
27. Iodin hyperthyroidism: an analysis of fifty cases. Boston Med. and Surg. Jour., 1925, cxciii, 1138–1140.
28. Thyroidectomy under local anesthesia. Northwest Med., 1925, xxiv, 617–619.

Jackson, George H., Jr., was born August 17, 1890 in Natick, Massachusetts; attended Boston University two years; received the degree of M.D. from Harvard University, Cambridge, Massachusetts, in 1918; was intern in the Hartford Hospital, Connecticut, one year, from 1917 to 1918; in the Children's Hospital, Boston, six months; in the Massachusetts General Hospital, Boston, one year, and in the Infants' Hospital, Boston, four months. He was volunteer assistant in pathology in Peter Bent Brigham Hospital, Boston, two months; resident surgeon in the Children's Memorial Hospital, Chicago, fourteen months, and fellow in orthopedics in the S. A. Sprague Memorial Institute, University of Chicago, one year. He entered The Mayo Foundation September 1, 1921 as a fellow in pediatrics. His services included pediatrics, seven months, and experimental bacteriology, fourteen months. He left The Mayo Foundation June 1, 1923; he is

George H. Jackson, Jr.

now clinical associate in the department of surgery, Rush Medical College, and a Nicholas Senn fellow in surgery at the University of Chicago. He is a member of the Chicago Medical Society, the State Medical Association, the American Association for the Advancement of Science, and the American Medical Association. His address is Evanston Hotel, Evanston, Illinois.

Bibliography.—1. Microscopic demonstration of bacteria in the lesions of epidemic (lethargic) encephalitis. Jour. Infect. Dis., 1923, xxxii, 144–152. (With E. C. Rosenow.)

Jameson, Carol E., B.A., M.D., was born August 2, 1896 in St. Louis; received the degree of B.A. in 1917, and of M.D. in 1921, from Stanford University, California; and was intern in the Children's Hospital, San Francisco, from 1920 to 1921. She entered The Mayo Foundation August 1, 1921 as a fellow in medicine; her services included general diagnosis, seventeen months; dermatology and syphilology, three months, and radium therapy, three months. She left The Mayo Foundation July 1, 1923, to take the position of instructor in medicine at the Woman's Medical College, Vellore, India. Her address is Vellore, India.

Carol E. Jameson

Jameson-Todd, Bernice. B.A., M.D., was born June 22, 1891 in Corona, California; received the degree of B.A. in 1914, and of M.D. in 1917, from Stanford University, California, and was intern in the Children's Hospital, San Francisco, from 1917 to 1918. She entered The Mayo Foundation October 1, 1918 as a fellow in surgery; her services included general diagnosis, thirteen months, and surgery, eight months. She left The Mayo Foundation July 1, 1920, and returned to Corona, California. She is a member of the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. She married Clement J. Todd September 1, 1920. Her address is 178 S. E. Boulevard, Corona, California.

Bernice Jameson-Todd

Jepson, Paul N., B.A., M.D., was born October 12, 1893 in Faribault, Minnesota; received the degree of B.A. from Carleton College, Northfield, Minnesota, in 1916; attended the University of Minnesota from 1916 to 1918; received the degree of M.D. from the University of Pennsylvania in 1920, and was intern in the Presbyterian Hospital, Philadelphia, from 1920 to 1921. He entered The Mayo Foundation September 1, 1921 as a fellow in orthopedic surgery; his services have included orthopedics, thirteen months; research in experimental pathology, three months, and orthopedic surgery, thirty-three months. He was appointed first assistant in the Section on Orthopedics, Mayo Clinic, July 1, 1924, and an associate October 1, 1925. He is an instructor in orthopedics, The Mayo Foundation, Graduate School, University of Minnesota. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Dorothy Cannon December 30, 1922. His address is Rochester, Minnesota.

Paul N. Jepson

Bibliography.—1. Overhead elevator. Surg., Gynec., and Obst., 1923, xxxvi, 418–419.
2. A splint for abduction, traction, and suspension in fracture of the humerus. Jour. Am. Med. Assn., 1925, lxxxiv, 674–675.
3. An arthroplasty splint. Surg., Gynec., and Obst., 1925, xli, 512.
4. Apparatus for the transference of patients. Minn. Med., 1925, viii, 527.
5. Transformation of the middle finger into a thumb. Minn. Med., 1925, viii, 552.
6. A splint for abduction, traction, and suspension in fracture of the humerus. Jour. Am. Med. Assn., 1925, lxxxiv, 674–675.
7. Treatment following orthopedic surgery. (With M. S. Henderson.) In Bartlett, W.: Postoperative care of surgical patients. (In press.)
8. Planning the surgical service. Mod. Hosp., 1926, xxvi, 201–204.

Johnson, Arthur C., B.S., M.B., M.D., was born December 26, 1894 in Minneapolis; attended Macalester College, St. Paul, from 1913 to 1915; received the degree of B.S. in 1918, of M.B. in 1919, from the University of Minnesota; was intern at Rood Hospital, Hibbing, Minnesota, from June to November, 1919, and received the degree of M.D. in 1921 from the University of Minnesota. He entered The Mayo Foundation January 1, 1920 as a fellow in surgery; his services included neurology, three months; general diagnosis, fifteen months; postoperative treatment and orthopedic diagnosis, three months; radium therapy, three months; dermatology and syphilology, three months, and operative surgery, three years and nine months. He was appointed first assistant in one of the sections on general surgery, July 1, 1924. He left the Clinic September 1, 1926 to practice surgery in Omaha, Nebraska. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. His address is 625 City National Bank Building, Omaha, Nebraska.

Arthur C. Johnson

Johnson, Henry P., B.S., M.D., was born July 21, 1889 in Stetson, Maine; received the degree of B.S. in 1916 from Bates College, Lewiston, Maine; attended Harvard University Medical College, Boston, in 1917, and later Bowdoin College, Brunswick, Maine, where he received the degree of M.D. in 1921; interned at the Maine General Hospital, Portland, in 1920 and 1921, and practiced in Rockport, Maine, from August, 1921 to April 1, 1924, when he entered The Mayo Foundation as a fellow in otolaryngology and rhinology. His services thus far have included postoperative treatment, three months, and otolaryngology and rhinology, eighteen months. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the Oxford County Medical Society, the Maine Medical Association, the American Medical Association, and Delta Sigma Rho. He married Hazel McGregor December 14, 1922. His address is Rochester, Minnesota.

Henry P. Johnson

Johnstone, Ernest M., B.S., M.D., M.S. in Surgery, F.A.C.S., was born October 15, 1882 in Brandon, Manitoba; received the degree of B.S. from Pomona College, Claremont, California, in 1904, of M.D. from Rush Medical College, University of Chicago, in 1909, and of M.S. in Surgery from the University of Minnesota in 1921; was intern in Cook County Hospital, Chicago, eighteen months. He was in the Mission Hospital, China (M. E. Board), three years, was associate in surgery in the college and hospital of the Peking Union Medical College, Peking, three years, and was also superintendent of the Wuhu General Hospital, Wuhu, China. He entered The Mayo Foundation November 1, 1918 as a fellow in surgery; his services included general diagnosis, nine months; surgical pathology, five months; orthopedic diagnosis, three months; neurology, three months; surgery, eighteen months, and roentgenology, three months. He left The Mayo Foundation April 1, 1922 to establish a practice in surgery in Pasadena, California. He is a member of the American College of Surgeons, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Phi Beta Pi, Phi Beta Kappa, and Sigma Xi. He married Violet Higley September 17, 1913. His address is Professional Building, Pasadena, California.

Ernest M. Johnstone

Bibliography.—1. Human glanders. China Med. Jour., 1917, xxxi, 1–10. (With C. W. Young.)

2. Bismuth paste in chronic sinuses, abscess cavities, and so forth. China Med. Jour., 1917, xxi, 378–387.

3. A study of the blood changes in kala-azar after splenectomy (with incidental reference to the therapeutic value of this operation). China Med. Jour., 1918, xxxii, 505–513.

4. Changes in the morphology and function of the bone marrow after splenectomy. Arch. Surg., 1922, v, 159–187.

Jones, Hugh T., B.A., B.S., M.B., M.D., M.S. in Orthopedic Surgery, was born January 29, 1892 in San Jacinto, California; received the degree of B.S. in 1914 from Pomona College, Claremont, California, of B.S. in 1917, of M.B. in 1919, of M.D. in 1921, and of M.S. in Orthopedic Surgery in 1923, from the University of Minnesota; was intern at the University of Minnesota Hospital and at the Minnesota State Hospital for Crippled Children, Minneapolis, from 1918 to 1919. He entered The Mayo Foundation October 1, 1919 as a fellow in orthopedic surgery; his services have included postoperative treatment, three months; orthopedic diagnosis, six months, and orthopedic surgery, five and one-half years. He was appointed first assistant in the Section on Orthopedic Surgery in July, 1921, and an associate in July, 1925. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the Minnesota Orthopedic Club, the Southern Minnesota Medical Association, the Clinical Orthopedic Society, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Phi Beta Kappa, Alpha Omega Alpha, and Phi Beta Pi. He married Lorna Posz July 12, 1924. His address is Rochester, Minnesota.

Hugh T. Jones

Bibliography.—1. Loose bodies in joints and bursæ due to synovial osteochondromatosis. Jour. Bone and Joint Surg., 1923, v, 400–424. (With M. S. Henderson.)

2. Loose body formation in synovial osteochondromatosis, with special reference to the etiology and pathology. (Abstract.) Tr. Assn. Res. and Ex-Res. Phys. Mayo Clinic, 1924, v, 37–40.

Jones, John P., D.D.S., was born May 6, 1895 in Fairmount, Indiana, and received the degree of D.D.S. from the Indiana Dental College, Indianapolis, in 1919. He entered The Mayo Foundation August 1, 1919 as a special student in dental surgery; his services included dental surgery, two years, and experimental bacteriology, six months (part time). He left The Mayo Foundation August 1, 1921 to practice oral surgery in Indianapolis. He is a member of the Indianapolis Dental Society, the Indiana Dental Society, the American Dental Association, and is an associate member of the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. His address is 902 Hume-Mansur Building, Indianapolis, Indiana.

John P. Jones

Bibliography.—1. A report of 1,500 dental examinations with reference to systemic disease. Dental Sum., 1921, xl, 815–818. (With B. S. Gardner.)

Joseph, Edward G., M.B., Ch.B., M.R.C.S., L.R.C.P., M.S. in Surgery, was born September 20, 1894 in Wellington, New Zealand; attended Otago University, New Zealand, during 1913 and 1914; became a Trooper of the Otago Mounted Rifles, N. Z. E. F., in 1915, and served at Gallipoli and in the Egyptian campaign; was invalided home in 1916, and went to Edinburgh, where he attended the University, receiving the degree of M.B. and Ch.B. in 1918, and the degree of M.S. in Surgery in 1923 from the University of Minnesota; he was intern at the Royal Infirmary, Sheffield, England, for ten months in 1919. He entered The Mayo Foundation as a fellow in surgery in July, 1920; his services included clinical diagnosis, one year; radium therapy, three months; surgical pathology, six months; urology, three months, and operative surgery, one year. He left The Mayo Foundation July 1, 1923, and is now in practice in Wellington, New Zealand. He is a member of the British Medical Association, the Royal College of Surgeons (England), the Royal College of Physicians (London), and the Association of Resident and Ex-Resident Physicians of the Mayo

Edward G. Joseph

Clinic. He married Louise Fineman July 20, 1923. His address is 198 Willis Street, Wellington, New Zealand.

Bibliography.—1. The treatment of dysmenorrhea. Med. Clin. N. Amer., 1921, v, 473–476. (With Leda J. Stacy.)
2. Kymographic studies of various pathologic conditions of the stomach. Med. Clin. N. Amer., 1923, vii, 63–79. (With L. L. Hardt.)

Joshie, Nielamber C., B.Sc., M.B., B.S., was born August 2, 1888 in Almora, U. P., India; received the degree of B.Sc. from Allahabad University, India, in 1909, of M.B. and B.S. from the Medical College of Lahore, Punjab University, India, in 1913, and was intern in government hospitals and practicing from 1913 to 1917. He entered The Mayo Foundation August 1, 1917 as a fellow in surgery; his services included general diagnosis, one year; surgery, thirteen months; roentgenology, five months; urology, three months, and surgical pathology, five months. He left The Mayo Foundation October 1, 1920, to practice surgery in Almora, India. He is a member of the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. His address is Deoria Hospital, Deoria, District of Gorakhpur, U. P., India.

Nielamber C. Joshie

Joyce, Thomas M., M.D., was born January 28, 1885 in Emmetsburg, Iowa; attended the University of Notre Dame, Indiana, from 1903 to 1906; received the degree of M.D. from the University of Michigan in 1910, and was intern in the University Hospital at Ann Arbor, Michigan, from 1910 to 1911. He entered the Mayo Clinic June 15, 1911, was intern at St. Mary's Hospital two years and one month, and was surgical assistant nine months. He left the Mayo Clinic in April, 1914, and is now practicing general surgery in Portland, Oregon. During the war he was chief surgeon at Base Hospital 46, and was with the American Expeditionary Forces for nine months. He is a member of the City and County Medical Society of Portland, the Portland Academy of

Thomas M. Joyce

Medicine, the Oregon State Medical Association, the Eclat Club, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, of which he was president in the year 1923 to 1924. He married Ruth Kiernan October 5, 1915. His address is Stevens Building, Portland, Oregon.

Bibliography.—1. Toxic goiter. Northwest Med., 1923, xxii, 445–448.
2. Diverticulitis of the sigmoid. Surg. Clin. N. Amer., 1924, iv, 1319–1322.
3. Cholangitis with stone. Surg. Clin. N. Amer., 1924, iv, 1323–1325.
4. Cretinism and multiple adenoma of the thyroid. Surg. Clin. N. Amer., 1924, iv, 1327–1331.
5. Cholangitis and cholecystitis. Surg. Clin. N. Amer., 1924, iv, 1333–1335.
6. Carcinoma of the cecum. Surg. Clin. N. Amer., 1924, iv, 1337–1338.
7. Infection of the gall-bladder in relation to pernicious anemia. Am. Jour. Med. Sc., 1924, clxviii, 469–494. (With N. W. Jones.)

Judd, E. Starr, M.D., F.A.C.S., was born July 11, 1878 in Rochester, Minnesota; received the degree of M.D. from the University of Minnesota in 1902; served as intern in St. Mary's Hospital, Rochester, Minnesota, from 1902 to 1903, and as first assistant to Dr. C. H. Mayo from 1903 to 1904, when he was appointed head of one of the sections in the Division of Surgery in the Mayo Clinic. He is professor of surgery, The Mayo Foundation, Graduate School, University of Minnesota. During the war he was Major, Medical Officers' Reserve Corps, and Director of the School of Instruction for Officers and Enlisted Men, of the Medical Corps in Rochester, Minnesota. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the Minnesota Pathological Society, the Minnesota Academy of Medicine, the Southern Minnesota Medical Association, the Interurban Surgical Association, the Southern Surgical and Gynecological Association, the Western Surgical Association, the American Medical Association, the American College of Surgeons, the American Surgical Association, the Society of Clinical Surgery, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Alpha Kappa Kappa, and Sigma Xi. He married Helen Berkman September 7, 1908. His address is Rochester, Minnesota.

E. Starr Judd

Bibliography.—1. Inguinal hernia—types of operation. Results in 1,652 cases. Jour. Minn. State Med. Assn. and Northwest. Lancet, 1908, xxviii, 65–69.
2. Indications for herniotomy in children. Jour. Minn. State Med. Assn. and Northwest. Lancet, 1908, xxviii, 374–375.

3. Epithelioma of the lip. Old Dominion Jour. Med. and Surg., 1908–1909, vii, 339–344.
4. Congenital idiopathic dilatation of the colon: "Hirschsprung's disease." Journal-Lancet, 1909, xxix, 1–4.
5. Treatment of cancer of the face, head, and neck. St. Paul Med. Jour., 1909, xi, 151–156.
6. A method of operation for ununited fracture. Railway Surg. Jour., 1909, Aug.
7. Tumors of the bladder. Jour. Minn. State Med. Assn. and Northwest. Lancet, 1909, xxix, 509–511.
8. Tumors of the breast, with special reference to obtaining better results in malignant cases. St. Paul Med. Jour., 1909, xi, 547–552.
9. Transperitoneal operation for removal of bladder neoplasms. Jour. Am. Med. Assn., 1909, liii, 2146–2149.
10. Indications for herniotomy in inguinal hernias. Ill. Med. Jour., 1910, xvii, 409–412.
11. The preparation of patients for prostatectomy. Old Dominion Jour. Med. and Surg., 1910, xi, 101–105.
12. Skin flaps and skin grafting. Rail. Surg. Jour., 1910, xvi, 526–530.
13. Treatment of tuberculous glands of the neck: a study of 649 operated cases. Ann. Surg., 1910, lii, 758–766.
14. Mixed tumors of the parotid glands. Jour. Minn. State Med. Assn., 1911, xxxi, 587–590.
15. Observations on the present status of surgery for cancer of the breast. Report of six cases of metastasis in the bones. New York Med. Jour., 1912, xcv, 867–872.
16. A review of 542 cases of prostatectomy. Jour. Am. Med. Assn., 1911, lvii, 458–460.
17. The technic of the operation of suprapubic prostatectomy; with a view to reducing the length of convalescence and insuring a good functional result. Journal-Lancet, 1912, xxxii, 589–593.
18. Prevention and treatment of ventral hernia. Surg., Gynec., and Obst., 1912, xiv, 175–182.
19. Tumors of the urinary bladder. Jour. Ark. Med. Soc., 1912–1913, ix, 61–68.
20. The functional results in prostatectomy. Journal-Lancet, 1912, xxxii, 458–462.
21. Results in the treatment of tumors in the urinary bladder. Jour. Am. Med. Assn., 1912, lix, 1788–1791.
22. Cæsarean section and Cæsarean Porro operation. Report of twelve cases. St. Paul Med. Jour., 1913, xv, 70–78.
23. Prostatectomy. Surg., Gynec., and Obst., 1913, xv, 379–385.
24. A single transverse incision for use in double inguinal herniotomies. Old Dom. Jour. Med. and Surg., 1913, xvi, 153–156.
25. Chronic cystic mastitis. Jour. Mich. State Med. Soc., 1914, xiii, 11–20.
26. The treatment of malunited fractures of the shaft of the femur. Railway Surg. Jour., 1914, xx, 237–239.
27. A method of exposing the lower end of the ureter. Ann. Surg., 1914, lix, 393–395.
28. Nonpapillary benign tumors of the bladder. Journal-Lancet, 1914, xxxiv, 188–191.
29. End-results in operations for cancer of the breast. Surg., Gynec., and Obst., 1914, xviii, 289–294. (With W. E. Sistrunk.)
30. Cancer of the prostate. Surg., Gynec., and Obst., 1915, xx, 274–277.
31. The technic of cholecystectomy. Ann. Surg., 1915, lxi, 307–308.
32. Surgical pathology of the prostate. Journal-Lancet, 1915, xxxv, 380–387.
33. Subdiaphragmatic abscess. Journal-Lancet, 1915, xxxv, 619–623.
34. Cirsoid aneurysm. St. Paul Med. Jour., 1916, xviii, 48–53.
35. Results of operations for exophthalmic goiter. Surg., Gynec., and Obst., 1916, xxii, 269–274. (With J. D. Pemberton.)
36. Foreign bodies in the urinary bladder. Journal-Lancet, 1916, xxxvi, 474–477.
37. Cholecystitis; changes produced by the removal of the gallbladder. Boston Med. and Surg. Jour., 1916, clxxiv, 815–825.

38. Intracanalicular papilloma of the breast. Journal-Lancet, 1917, xxxvii, 141–144.
39. Removal of the gallbladder. Ill. Med. Jour., 1917, xxxi, 144–148.
40. Surgery of the thyroid. St. Paul Med. Jour., 1917, xix, 70–75.
41. The advisability of prostatectomy in the presence of cord lesions. Ill. Med. Jour., 1917, xxxii, 229–233.
42. Some of the principles involved in the treatment of patients suffering from obstructing enlargement of the prostate. Inter. Med. Jour., 1917, xxiv, 70–75.
43. The effect of removal of the gallbladder. Surg., Gynec., and Obst., 1917, xxiv, 437–442. (With F. C. Mann.)
44. Transplantation of the ureter following traumatism and resection of the bladder for cancer. Surg., Gynec., and Obst., 1917, xxiv, 635–640.
45. The effect of trauma upon the laryngeal nerves. Ann. Surg., 1918, lxvii, 257–272. (With F. C. Mann and G. B. New.)
46. Contusion and rupture of the kidney. Railway Surg. Jour., April, 1918, xxiv, 197–204.
47. The recurrence of symptoms following operations on the biliary tract. Ann. Surg., 1918, lxvii, 473–488.
48. Tumors of the urinary bladder. South. Med. Jour., 1918, xi, 129–139. (With S. W. Harrington.)
49. The advisability of prostatectomy in the presence of cord lesions. Am. Jour. Syph., 1917, i, 752–759. (With W. F. Braasch.)
50. Surgical treatment of the prostate. Pennsylvania Med. Jour., 1917, xxi, 72–75.
51. Infections in prostate cases. Ann. Surg., 1917, lxvi, 363–370.
52. Surgery of the gallbladder and the biliary ducts. Jour. Am. Med. Assn., 1918, lxxi, 79–82.
53. Supernumerary and single ureters opening extravesically. Surg., Gynec., and Obst., 1918, xxvii, 13–18.
54. Surgical conditions resulting from local infections. Railway Surg. Jour., 1917, cxxiii, 296–299.
55. Esophageal diverticula. Surg., Gynec., and Obst., 1918, xxvii, 135–141.
56. Diverticula of the bladder. Ann. Surg., 1918, lxviii, 298–305.
57. Ureteral calculus removed by the vaginal route. Am. Jour. Obst., 1918, lxxvii, 849.
58. War surgery. Journal-Lancet, 1918, xxxviii, 617–620.
59. Prostatic calculi. Minn. Med., 1919, ii, 52–56. (With John L. Crenshaw.)
60. Surgery of the thyroid. Jour. Iowa State Med. Soc., 1917, vii, 403–407.
61. Ectopic or pelvic kidney. Surg., Gynec., and Obst., 1919, xxviii, 446–451. (With S. W. Harrington.)
62. Papillary tumor of the pelvis of the kidney. Journal-Lancet, 1919, xxxix, 247–253.
63. Diseases and treatment of the prostate gland. Jour. Mich. State Med. Soc., 1919, xviii, 469.
64. Surgery of the urinary bladder. Journal-Lancet, 1920, xl, 6–9.
65. Surgery of the kidney. Minn. Med., 1920, iii, 221–227.
66. The results of operations for the removal of stones from the ureter. Ann. Surg., 1920, lxxi, 128–138.
67. Carcinoma of the small intestine. Journal-Lancet, 1919, xxxix, 159–169.
68. Intrathoracic goiter. Internat. Clin., 1920, i, 30 s., 149–157.
69. The operative treatment of vesicovaginal fistulæ. Surg., Gynec., and Obst., 1920, xxx, 447–453.
70. The surgical treatment of malignant tumors of the bladder. Jour. Am. Med. Assn., 1920, lxxv, 1401–1406. (With W. E. Sistrunk.)
71. Fibromyoma of the mesentery. Surg., Gynec., and Obst., 1920, xxxi, 372–375. (With J. R. McVay.)
72. The results of surgical treatment of exophthalmic goiter. New York State Jour. Med., 1920, xx, 287–290.

73. Results of operation for adenoma with hyperthyroidism and exophthalmic goiter. Ann. Surg., 1920, lxxii, 145–151.
74. Esophageal diverticula. Arch. Surg., 1920, i, 38–52.
75. Surgery of the ureter. Minn. Med., 1921, iv, 597–601.
76. Prognosis in cases of carcinoma of the prostate discovered at operation. Surg. Clin. N. Amer., 1921, i, 1279–1290. (With H. C. Bumpus and A. J. Scholl.)
77. Adenomyoma presenting as a tumor of the bladder. Surg. Clin. N. Amer., 1921, i, 1271–1278.
78. Jejunal ulcer. Surg., Gynec., and Obst., 1921, xxxiii, 120–126.
79. A consideration of the treatment of lesions of the thyroid gland. Minn. Med., 1921, iv, 315–318.
80. Cholecystitis with special reference to the recurrence of symptoms following operations upon the gallbladder. Journal-Lancet, 1921, xli, 511–517.
81. Relation of the liver and the pancreas to infection of the gallbladder. Jour. Am. Med. Assn., 1921, lxxvii, 197–201.
82. Primary carcinoma of the ureter. Review of the literature and report of a case. Jour. Urol., 1921, vi, 115–124. (With J. E. Struthers.)
83. Problems in surgery of the gallbladder and of the bile ducts. Jour. Kansas Med. Soc., 1921, xxi, 185–189.
84. Pathologic conditions of the duodenum. Journal-Lancet, 1921, xli, 215–220.
85. Laryngeal function in thyroid cases. Ann. Surg., 1921, lxxiii, 321–327.
86. Cysts of the pancreas. Minn. Med., 1921, iv, 75–82.
87. Surgery of the gallbladder and biliary ducts. Can. Med. Assn. Jour., 1921, xi, 929–933.
88. Vesico-appendiceal fistulas: Report of two cases. Surg., Gynec., and Obst., 1921, xxxii, 153–155. (With F. W. Rankin.)
89. Bleeding ulcer of the duodenum associated with cholecystitis. Ann. Surg., 1922, lxxv, 459–466.
90. Ileostomy following resection of the colon. Surg., Gynec., and Obst., 1922, xxxv, 50–52. (With F. W. Rankin.)
91. Hemangiomas of the gastro-intestinal tract. Ann. Surg., 1922, lxxvi, 28–34. (With F. W. Rankin.)
92. Excision of ulcer of the duodenum. Journal-Lancet, 1922, xlii, 381–385.
93. Horseshoe kidney. Jour. Am. Med. Assn., 1922, lxxix, 1189–1196. (With W. F. Braasch and A. J. Scholl.)
94. Surgery of acute conditions of the gallbladder. Minn. Med., 1922, v, 687–692. (With W. P. Herbst.)
95. Resection of the body of the stomach for ulcer; report of a series of cases with end-results. Ann. Surg., 1922, lxxvi, 409–420. (With J. H. Lyons.)
96. Emphysema of the scrotum, the result of diverticulitis of the sigmoid with perforation. Surg., Gynec., and Obst., 1922, xxxv, 310–312. (With F. W. Rankin.)
97. Fibromas of the ovary. Surg., Gynec., and Obst., 1923, xxxvi, 247–251.
98. White bile in the common duct. Annals of Surgery, 1923, lxxvii, 281–292. (With J. H. Lyons.)
99. Carcinoma of the tongue. General principles involved in operations and results obtained at Mayo Clinic. Surg., Gynec., and Obst., 1923, xxxvi, 163–169; also Radium Therapist, 1923, ii, 221–224. (With G. B. New.)
100. Ulcer of the stomach and duodenum. Minn. Med., 1923, vi, 311–314.
101. The operative risk in cases in which the fluid in the common duct is colorless. (Editorial.) Surg., Gynec., and Obst., 1923, xxxvi, 842–843.
102. Surgery of the gallbladder. Cincinnati Jour. Med., 1923, iv, 178–186.
103. Adenomyomas involving the sigmoid. Surg., Gynec., and Obst., 1923, xxxvii, 648–652. (With G. S. Foulds.)
104. A technic for the resection of gastric and duodenal ulcers. Surg., Gynec., and Obst., 1923, xxxvii, 216–220. (With F. W. Rankin.)

105. The mortality following operations on the liver, pancreas, and biliary passages. Ann. Surg., 1923, lxxviii, 194–204. (With J. H. Lyons.)
106. On the surgical treatment of diseases of the prostate gland. Am. Jour. Surg., 1923, xxxvii, 200–204.
107. Lesions of the stomach. Tennessee State Med. Assn. Jour., 1923, xvi, 41–45.
108. Condition of the common duct after cholecystectomy. Jour. Am. Med. Assn., 1923, lxxxi, 704–709.
109. The functions of the state medical association. Minn. Med., 1923, vi, 611–615.
110. Diverticulum of the urinary bladder. Surg., Gynec., and Obst., 1924, xxxviii, 14–26. (With A. J. Scholl.)
111. Thrombosis and embolism resulting from renal tumors. Jour. Am. Med. Assn., 1924, lxxxii, 75–78. (With A. J. Scholl.)
112. Surgery of renal tuberculosis. Ann. Surg., 1924, lxxix, 395–409. (With A. J. Scholl.)
113. Excerpts from articles on urologic surgery with comments. Arch. Surg., 1924, viii, 681–704. (With W. F. Braasch, A. J. Scholl, and L. D. Keyser.)
114. Surgery of the kidney and ureter. Atlantic Med. Jour., 1924, xxvii, 331–335. (With A. J. Scholl.)
115. The value of sacral nerve block anesthesia in surgery of the prostate gland and bladder. Jour. Urol., 1924, xi, 395–413. (With W. R. Meeker.)
116. Noncalculous intermittent biliary obstruction following cholecystectomy. Ann. Surg., 1924, lxxix, 533–537. (With V. G. Burden.)
117. A consideration of lesions of the colon treated surgically. South. Med. Jour., 1924, xvii, 75–81.
118. Surgery of the stomach. Surg. Clin. N. Amer., 1924, iv, 319–324. (With J. H. Lyons.)
119. Problems encountered in the treatment of disease of the biliary tract. Minn. Med., 1924, vii, 161–170.
120. Hypertrophy of the prostate. Surg. Clin. N. Amer., 1924, iv, 387–397.
121. Renal calculus. Texas State Jour. Med., 1924, xx, 434–439. (With A. J. Scholl.)
122. A review of urologic surgery. Arch. Surg., 1924, ix, 653–688. (With A. J. Scholl, L. D. Keyser, and G. S. Foulds.)
123. Stricture of the common bile duct. (Editorial.) Surg., Gynec., and Obst., 1924, xxxix, 832–833.
124. Gastrojejunal ulcer. Oxford Surgery, 1924, pt. 2, i, 1060–1075. (With B. R. Parker.)
125. A review of cases of hydronephrosis and pyonephrosis. Surg. Clin. N. Amer., 1924, iv, 425–449. (With A. J. Scholl.)
126. Postoperative stricture of the common bile duct. Ann. Surg., 1924, lxxx, 210–216. (With V. G. Burden.)
127. Diverticulitis of the colon. Ann. Surg., 1924, lxxx, 425–438. (With L. W. Pollock.)
128. Internal biliary fistula. Ann. Surg., 1925, lxxxi, 305–312. (With V. G. Burden.)
129. The surgical treatment of cancer. Jour. Am. Med. Assn., 1925, lxxxiv, 10–13.
130. Multiple gastric ulcers. Med. Jour. and Rec., 1925, cxxi, 93–95. (With O. S. Proctor.)
131. Clinical demonstration: affections of the colon and urinary tract. Journal-Lancet, 1925, xiv, 90–91.
132. The surgical treatment of cancer of the breast. Am. Jour. Roentgenol., 1925, xiii, 411–414.
133. Infections of the gallbladder and bile ducts. Journal-Lancet, 1925, xlv, 179–182.
134. Obstructive jaundice. Am. Jour. Med. Sc., 1925, clxix, 888–896. (With V. G. Burden.)
135. Surgical procedures in jaundiced patients. Jour. Am. Med. Assn., 1925, lxxxv, 88–92.

136. Gastric and duodenal ulcers. Wisconsin Med. Jour., 1925, xxiv, 60–62.
137. A review of urologic surgery. Arch. Surg., 1925, x, 774–812; xi, 152–170, 304–328. (With A. J. Scholl, L. D. Keyser, G. S. Foulds, and J. Verbrugge.)
138. Certain difficulties presented by disease of the biliary tract. Surg. Clin. N. Amer., 1925, v, 643–653.
139. Urinary and prostatic calculi. Surg. Clin. N. Amer., 1925, v, 655–672. (With B. R. Parker and H. D. Morse.)
140. Partial resection of the kidney. Ann. Surg., 1925, lxxxii, 458–471.
141. Surgical procedures in jaundiced patients. Jour. Am. Med. Assn., 1925, lxxxv, 88–92.
142. Recent progress in abdominal surgery. Tr. Assn. Res. and Ex-Res. Phys. Mayo Clinic, 1925, vi.
143. Carcinoma of the male breast. Surg., Gynec., and Obst., 1926, xlii, 15–18. (With H. D. Morse.)
144. Intrahepatic cholelithiasis: Report of a case. Surg., Gynec., and Obst., 1926, xlii, 322–325. (With V. G. Burden.)
145. Benign stricture of the bile ducts. Arch. Surg., 1926. (In press.) (With V. G. Burden.)
146. Clinical versus pathologic cholecystitis. Illinois Med. Jour., 1926, xlix, 460–464.
147. Ulcer of the duodenum. Minn. Med., 1926, ix, 320–322.
148. Cholecystitis. Northwest Med., 1926, xxv, 167–171.
149. Surgical treatment in cases of obstructive jaundice. Practitioner, 1926. (In press.) (With D. B. Cobb.)
150. Surgery in the presence of diabetes. Jour. Am. Med. Assn., 1926, lxxxi, 1107–1110. (With R. M. Wilder and S. F. Adams.)

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Bibliography.—1. The costliness of light absorption. Electrical World, 1917, xlix, 1009.

2. The graphical significance of some algebraic operations. Bull. Soc. Promotion of Eng. Ed., 1918, viii, No. 9.

3. Laboratory instruction in engineering. Bull. Soc. Promotion of Eng. Ed., 1923, xiii, No. 10.

4. Measurements of ionization currents. Jour. Optical Soc. and Review of Scientific Instruments, 1923, xvii, No. 12.

5. Roentgen-ray stereoscopy. Arch. Radiol. and Electroth., 1923, xxviii, 105–110.

6. Apparatus for the calibration of *x*-ray machines. Radiology, 1924, iii, 141–144.

7. A portable apparatus for measuring *x*-rays. Radiology, 1925, iv, 497–499.

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Bibliography.—1. An attempt to find an antipeptic enzyme in the blood. Jour. Lab. and Clin. Med., 1925, x, 787–793.

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Bibliography.—1. Functional changes in experimental hydronephrosis. Arch. Int. Med., 1915, xv, 239–264. (With R. R. Snowden.)

2. Experimental hydronephrosis. Bull. Johns Hopkins Hosp., 1915, xxvi, 160.

3. A method for determination of plasma and blood volume. Arch. Int. Med., 1915, xvi, 547–576. (With L. G. Rowntree and J. T. Geraghty.) also Tr. Assn. Am. Phys., 1915, xxx, 102–106.

4. Excretion of sugars by the kidney. Proc. Soc. Exper. Biol. and Med., 1914–1915, xii, 210. (With G. Pierce.)

5. Plasma and blood volume in pregnancy. Jour. Am. Med. Assn., 1915, lxv, 779–782. (With J. R. Miller and L. G. Rowntree.)

6. The rôle of the liver in acute polycythemia. III. The relation of plasma volume to the number of erythrocytes per unit volume of blood. Jour. Pharmacol. and Exper. Therap., 1916, viii, 247–251. (With P. D. Lamson.)

7. Experimental hydronephrosis; functional and anatomical changes in the kidney following partial ureteral obstruction. Arch. Int. Med., 1917, xx, 853–878. (With D. S. Pulford.)

8. War nephritis; a clinical, functional, and pathological study. Quart. Jour. Med., 1917–1918, xi, 229–266. (With W. W. D. Thomson.)

9. Blood volume in wound shock. Natl. Health Insurance, Med. Res. Com., Special Report No. 26, London, H. M. Stat. Off., 1919, 36–44.

10. Blood volume changes in wound shock and primary hemorrhage. Natl. Health Insurance, Med. Res. Com., Special Report No. 27, London, H. M. Stat. Off., 1919, 16 pp.
11. War nephritis. Jour. Urol., 1919, iii, 87–145. (With W. W. D. Thomson.)
12. Shock: some recent advances in its physiology and therapy. Canadian Med. Jour., 1920 (June 1–11).
13. Blood volume changes following water abstinence. Am. Jour. Physiol., 1922, lix, 452–453.
14. Hypertension in cardiovascular disease. Med. Herald, 1922, xli, 348–349.
15. A study of the renal complications of disseminated lupus erythematosus: Report of four cases. Tr. Assn. Am. Phys., 1922, xxxvii, 487–502. (With L. G. Rowntree.)
16. The present status of renal functional tests. Ann. Clin. Med., 1922, i, 61–65.
17. Chlorid retention in experimental hydronephrosis. Jour. Exper. Med., 1923, xxxvii, 175–186. (With D. S. Pulford.)
18. Circulatory changes in experimental dehydration. Am. Jour. Physiol., 1923, lxiii, 394–395.
19. The total circulating volume of blood and plasma in cases of chronic anemia and leukemia. Am. Jour. Med. Sc., 1923, clxv, 174–184.
20. Acute renal insufficiency following major surgical operations. Med. Clin. N. Amer., 1923, vii, 135–140. (With C. W. Barrier.)
21. Blood and plasma volume in obesity. Arch. Int. Med., 1924, xxxiii, 217–223. (With G. E. Brown.)
22. Experimental dehydration: changes in blood composition and body temperature. Am. Jour. Physiol., 1924, lxviii, 80–96.
23. Treatment of nephritis and edema with calcium. Jour. Am. Med. Assn., 1924, lxxxiii, 666–670; also Dietary Administration and Therapy, 1924, ii, 554–562. (With C. W. Barrier and Mary Whelan.)
24. Cases of marked hypertension, adequate renal function, and neuroretinitis. Arch. Int. Med., 1924, xxxiv, 374–387. (With H. P. Wagener.)
25. Certain distinct types of renal disease. Med. Clin. N. Amer., 1925, viii, 1093–1101.
26. The effect of novasurol on the composition of blood and urine. (Abstract.) Am. Jour. Physiol., 1925, lxxii, 195–196. (With Mary Whelan.)
27. The diuretic action of ammonium chlorid and novasurol in cases of nephritis with edema. Jour. Am. Med. Assn., 1925, lxxxv, 799–806. (With C. W. Barrier and Mary Whelan.)
28. Novasurol in the treatment of ascites in hepatic disease. Jour. Am. Med. Assn., 1925, lxxxv, 1187–1193. (With L. G. Rowntree and C. W. Barrier.)
29. A clinical study of nephritis in cases of pregnancy. Surg., Gynec., and Obst., 1926, xlii, 342–350. (With R. Rockwood and R. D. Mussey.)
30. The therapeutic use of diets low in water and mineral content. Arch. Int. Med., 1926, xxxvii, 550–558. (With Florence H. Smith and Mary Whelan.)
31. The physiologic effects of ammonium chlorid. (Read before Am. Pharmacol. Soc.) (With Mary Whelan.)

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Bibliography.—1. Further investigation into the precipitation of the typhoid bacillus by means of definite hydrogen-ion concentration. Jour. Infect. Dis., 1916, xviii, 209–215.

2. Instructing diabetics. Colorado Med., 1924, xxi, 184–185.

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Bibliography.—1. The detection and identification of certain reducing sugars by condensation with p. brombenzaldehyd. Jour. Am. Chem. Soc., 1908, xxx, 1451–1455. (With H. C. Sherman.)

2. Studies on amylases, I. An examination of methods for the determination of diastatic power. Jour. Am. Chem. Soc., 1910, xxxii, 1073–1086. (With H. C. Sherman and E. D. Clark.)

3. Studies on amylases, II. A study of the action of pancreatic amylases. Jour. Am. Chem. Soc., 1910, xxxii, 1087–1105. (With H. C. Sherman.)

4. A quantitative study of the action of pancreatic amylases. Columbia University Jour., June, 1910. Dissertation.

5. The determination of copper—a modification of the iodid method. Jour. Am. Chem. Soc., 1911, xxxiii, 1947–1952.

6. A new method for the determination of the reducing sugars. Jour. Am. Chem. Soc., 1912, xxxiv, 317–341.

7. The determination of iodin in the presence of other halogens and organic matter. Jour. Am. Chem. Soc., 1912, xxxiv, 894–909.

8. The determination of iodin in connection with studies in thyroid activity. Jour. Biol. Chem., 1914, xix, 251–256.

9. Evidence of the specific physiologic activity of certain constituents of the thyroid. Jour. Path. Soc., Minneapolis, 1913–1914.

10. A method of decomposition of the protein of the thyroid with a description of certain constituents. Jour. Biol. Chem., 1915, xx, 500–509.

11. The isolation in crystalline form of the compound containing iodin which occurs in the thyroid: Its clinical nature and physiological activity. Tr. Assn. Am. Phys., 1915, xxx, 420–449; Jour. Am. Med. Assn., 1915, lxiv, 2042–2043.

12. The relationship of the pathological histology and iodin compounds of the human thyroid. Am. Jour. Med. Sc., 1916, cli, 79–91. (With L. B. Wilson.)

13. The function of the thyroid parathyroid apparatus. Jour. Am. Med. Assn., 1916, lxvi, 811–813.

14. Studies of the active constituent, in crystalline form, of the thyroid. Tr. Assn. Am. Phys., 1916, xxxi, 134–145.

15. Recent advances in our knowledge of the active constituent in the thyroid: Its chemical nature and function. Boston Med. and Surg. Jour., 1916, clxxv, 557–562.

16. The active constituent of the thyroid. Its isolation, chemical properties, and physiologic activity. Proc. Soc. Biol. Chem., 1917. Collected Papers of the Mayo Clinic, 1916, viii, 513–527.

17. The fate of phenolsulphonephthalein when injected into the animal organism: Factors other than the kidney influencing its "retention." Preliminary Report, Jour. Am. Med. Assn., 1917, lxviii, 343–345.

18. The thyroid hormone. Presented before the Am. Chem. Soc., Sept. 9, 1917. Collected Papers of the Mayo Clinic, 1917, ix, 309–336.
19. Experimental hyperthyroidism. Jour. Am. Med. Assn., 1917, lxix, 612–614.
20. On the crystalline compound containing iodin which occurs in the thyroid. Endocrinology, 1917, i, 153–169.
21. The relation of the thyroid to the other ductless glands. Journal-Lancet, 1917, xxxvii, 768–771.
22. Recent advances in our knowledge of the active constituent of the thyroid: Its chemical nature and function. Journal-Lancet, 1917, xxxvii, 366–367.
23. The preparation of cyanamid. Jour. Biol. Chem., 1917, xxxii, 297–298. (With A. E. Osterberg.)
24. The thyroid hormone and its relation to the other ductless glands. Endocrinology, 1918, ii, 81–93.
25. The active constituent of the thyroid: Chemical groups that are responsible for its physiologic activity. Jour. Am. Med. Assn., 1918, lxxi, 871–873.
26. The isolation and identification of the thyroid hormone; the physiological action of the thyroid. Am. Jour. Physiol., 1918, xlv, 540–541.
27. The physiological action of thyroxin. Endocrinology, 1919, iii, 156–163.
28. The use of turpentine resin in turpentine as a foam breaker. Jour. Biol. Chem., 1919, xxxviii, 529.
29. The use of coal as a substitute for talcum to induce rapid boiling. Jour. Am. Chem. Soc., 1919, xli, 1189–1190.
30. The isolation of the iodin compound which occurs in the thyroid. First Paper. Jour. Biol. Chem., 1919, xxxix, 125–147.
31. The chemical identification of thyroxin. Second paper. Jour. Biol. Chem., 1919, xl, 265–334. (With A. E. Osterberg.)
32. The chemical and physiologic nature of the active constituents of the thyroid. Med. Clin. N. Amer., 1919, iii, 583–602.
33. Determination of iodin in connection with studies in thyroid activity. Third paper. Jour. Biol. Chem., 1920, xliii, 149–159.
34. The preparation of certain derivatives of cyclohexane. Jour. Am. Chem. Soc., 1920, xlii, 2616–2626. (With A. E. Osterberg.)
35. Determination of iodin in blood and in animal tissue. Fourth paper. Jour. Biol. Chem., 1920, xliii, 161–170. (With F. S. Richardson.)
36. The chemistry of the thyroid secretion. The Harvey Society Lectures, Philadelphia, J. B. Lippincott Co., 1920–1921, s. xv, 40–57.
37. The chemical nature of the thyroid secretion. Keen's Surgery, Philadelphia, W. B. Saunders Co., 1921, viii, 47–50.
38. The chemical influence of the active constituents of the ductless glands. Surg., Gynec., and Obst., 1921, xxxii, 205–209.
39. The ortho-diethylamino-cyclohexanol ester of para-aminobenzoic acid. Jour. Am. Chem. Soc., 1921, xliii, 1370–1371. (With A. E. Osterberg.)
40. Some physical and chemical properties of thyroxin. Collected Papers Mayo Clinic, 1921, xiii, 484–487.
41. The chemistry and the pharmacologic action of thyroxin. Ann. Clin. Med., 1923, i, 256–258.
42. Chemistry of the thyroid gland. Jour. Am. Med. Assn., 1924, lxxxiii, 1166–1167; (Abstract.) Tr. Assn. Res. and Ex-Res. Phys. Mayo Clinic, 1924, v, 64–66.
43. The quantitative study of the physiologic action of thyroxin. Jour. Biol. Chem., 1925, lxiii, xi-xii; also Proc. Soc. Exper. Biol. and Med., 1925, xxii, 307–308.
44. The influence of ductless glands on biologic reaction. Wisconsin Med. Jour., 1925, xxiv, 303–305.
45. The function of thyroxin. Tr. Assn. Am. Phys., 1925.

46. The influence of the thyroid gland on oxidation in the animal organism. Jour. Indust. and Eng. Chem., 1925, xvii, 525–534.
47. The preparation of 2 oxo dihydro and 2 oxo hexahydroindol, 3 propionic acid, and some of their halogen derivatives. Studies on thyroid activity. Fifth paper. Jour. Am. Chem. Soc., 1926, xlviii, 1384–1401. (With A. E. Osterberg and B. F. MacKenzie.)

Kennedy, Roger L. J., B.S., M.B., M.D., was born February 8, 1897 in St. Paul, Minnesota; received the degree of B.S. in 1918, of M.B. in 1920, and of M.D. in 1922, from the University of Minnesota; interned at the City and County Hospital, St. Paul, in 1921 and 1922, and practiced general medicine in Belle Plaine, Minnesota, from December, 1920 to July, 1921, and pediatrics in St. Paul from August, 1922 to April, 1923. He entered The Mayo Foundation July 2, 1923 as a fellow in pediatrics; his service has included six months at the Medical School, University of Minnesota, and two years in the Section on Pediatrics, where he was appointed first assistant October 1, 1924. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the Northwest Pediatric Society, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Incus, Delta Chi, and Alpha Omega Alpha. He married Ellen McGinn July 30, 1925. His address is Rochester, Minnesota.

Roger L. J. Kennedy

Bibliography.—1. The prognosis of sequelæ of epidemic encephalitis in children. Am. Jour. Dis. Child., 1924, xxviii, 158–172.
2. Duodenal ulcer and melena neonatorum. Am. Jour. Dis. Child., 1924, xxviii, 694–699.
3. Etiology and healing process of duodenal ulcer in melena neonatorum. Am. Jour. Dis. Child., 1926, xxxi, 631–638.

Kennedy, William A., B.S., M.D., was born August 1, 1893 in Minneapolis; received the degree of B.S. in 1917, and of M.D. in 1918, from the University of Minnesota; served as private in the Medical Corps, A. E. F., at Base Hospital 26, ten months during the war; did graduate work at the University of Edinburgh, Scotland, in 1919, and was assistant in the Todd-Patterson Clinic, Minneapolis, four months. He entered The Mayo Foundation December 1, 1919 as a fellow in ophthalmology; his services included laboratory work (Medical School, Minneapolis), seven months, and ophthalmology, five months. He resigned December 1, 1920, to practice ophthalmology in Minneapolis, and later in St. Paul. He is a member of the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Helen Dore October 7, 1925. His address is St. Paul Clinic, Lowry Building, St. Paul, Minnesota.

William A. Kennedy

Kent, George B., B.S., M.D., M.D. *cum laude*, was born July 24, 1891 in Clinton County, Indiana; received the degree of B.S. in 1914, of M.D. in 1916, and of M.D. *cum laude* in 1917, from Indiana University, and was intern at the R. W. Long Hospital, Indianapolis, from June, 1916 to June, 1917. He served as Lieutenant in the Medical Corps, A. E. F., from 1917 to 1920, when he was advanced to the rank of Captain. He resigned from military service in 1921. He entered The Mayo Foundation October 1, 1921 as a fellow in surgery; his services included general diagnosis, one year; roentgenology, three months; orthopedic surgery, three months; neurologic surgery, three months, and operative surgery, thirteen months. He left The Mayo Foundation August 1, 1924, and has since been practicing surgery and general diagnosis in Denver, Colorado. He is a member of the Denver County Medical Society, the Colorado State Medical Society, the American Medical Association, and Phi Beta Pi. He married Hazel M. Hall September 8, 1921. His address is 516 Republic Building, Denver, Colorado.

George B. Kent

Kernohan, James W., B.A.O., M.B., B.Ch., D.P.H., B.Sc., M.A. in Anatomy and Pathology, was born October 1, 1897 in Noyasett Ireland; received from Queen's University, Belfast, the degree of B.A.O., M.B., and B.Ch. in 1920, D.P.H. and B.Sc. (with first-class honors) in 1921, and from the University of Minnesota the degree of M.A. in Anatomy and Pathology in 1924; was clinical pathologist at Crichton Royal Institute, Dumfries, Scotland, in 1921 and 1922, and entered The Mayo Foundation October 1, 1922 as a fellow in pathology. His services have included pathologic anatomy, two years, and neurologic anatomy, nine months. He was appointed first assistant in the Section on Pathologic Anatomy, Mayo Clinic, January 1, 1925, and associate, October 1, 1925. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Sigma Xi. His address is Rochester, Minnesota.

James W. Kernohan

Bibliography.—1. The ventriculus terminalis: its growth and development. Jour. Comp. Neurol., 1924, xxxviii, 107–125.

Keyser, Linwood D., B.A., M.D., M.S. in Pathology, was born September 26, 1893 in Victoria, Texas; received the degree of B.A. from the University of Virginia in 1914, of M.D. from Johns Hopkins University, Baltimore, in 1918, and of M.S. in Pathology from the University of Minnesota in 1921; was First Lieutenant in the Medical Reserve Corps, U. S. A., but not in active service, during the war; was intern at Johns Hopkins University Hospital from June, 1918 to July, 1919; assistant resident surgeon at the Peter Bent Brigham Hospital, Boston, from July to December, 1919, and resident surgeon at the New York Post Graduate Hospital from January to June, 1920. He entered The Mayo Foundation September 8, 1920 as a fellow in pathology; his services included surgical pathology, nine and one-half months; urology, nine months; general diagnosis, three months; opera-

Linwood D. Keyser

tive surgery, nine months; orthopedic surgery, three months, and experimental surgery and pathology, twenty-seven months (the latter at the same time with other services). He left The Mayo Foundation July 1, 1924, and is now attending surgeon and surgical pathologist at the Roanoke Hospital, Roanoke, Virginia. He is a member of the Roanoke Academy of Medicine, the Southwest Virginia Medical Society, the Tri-State Medical Society of Virginia and the Carolinas, the Southern Medical Association, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Sigma Xi. His address is 417 Anchor Building, Roanoke, Virginia.

Bibliography.—1. Massive hypertrophy of the breast. Surg., Gynec., and Obst., 1921, xxxiii, 607–620.
2. The extension of hypernephroma by way of the renal vein. Jour. Urol., 1922, vii, 463–472. (With G. S. Foulds.)
3. The etiology of urinary lithiasis. Internat. Abst. of Surg., 1922, xxxiv, 1–10. (With W. F. Braasch.)
4. A box for handling small animals in the laboratory. Jour. Lab. and Clin. Med., 1922, vii, 671–672.
5. The mechanism of the formation of urinary calculi. Ann. Surg., 1923, lxxvii, 210–222.
6. The etiology of urinary lithiasis: an experimental study. Arch. Surg., 1923, vi, 525–553.
7. Satisfactory technique for local anesthesia in cystoscopy. Virginia Med. Month., 1294, li, 446–447.
8. Various types of goiter. Virginia Med. Month , 1924, li, 531–537.
9. Excerpts from articles on urologic surgery with comments. Arch. Surg., 1924, viii, 681–704. (With E. S. Judd, W. F. Braasch, and A. J. Scholl.)
10. Carcinoma of the suprarenal associated with unusual endocrine manifestations. Jour. Am. Med. Assn., 1924, lxxxii, 87–88. (With W. Walters.)
11. A review of urologic surgery. Arch. Surg., 1924, ix, 653–688. (With E. S. Judd, A. J. Scholl, and G. S. Foulds.)
12. A review of urologic surgery. Arch. Surg., 1925, x, 774–812; xi, 152–170, 304–328. (With A. J. Scholl, E. S. Judd, G. S. Foulds, and J. Verbrugge.)
13. Surgery of the gallbladder and ducts. Virginia med. Month., 1925, lii, 369–373.
14. Benign ureterospasm, ureteral stricture, and allied syndromes. Tr. Res. and Ex-Res. Phys. Mayo Clinic, 1925, vi, 253–259.
15. Clinical pathology as applied to pelvic diseases. Virginia Med. Month., 1926, lii, 715–720.

Kilfoy, Edward J., B.S., M.D., was born September 29, 1898 in Fairfield, Iowa; attended Parsons College from 1915 to 1917, summer school at St. Louis University in 1918, and at the University of Michigan in 1919, and the St. Louis University from 1919 to 1921, from which university he received the degree of B.S. and of M.D. in 1921, and was intern at the Missouri Baptist Hospital, St. Louis, from 1921 to April 1, 1923, when he entered The Mayo Foundation as a fellow in surgery. His services to January 1, 1926 included postoperative treatment, three months; pathologic anatomy, six months; otolaryngology, three months; general diagnosis, one year, and operative surgery, nine months. He is a member of the Olmsted County Medical Society and the Minnesota State Medical Association. His address is Fairfield, Iowa.

Edward J. Kilfoy

Kilgore, Allen M., M.D., was born February 1, 1893 in Memphis, Tennessee; attended Vanderbilt University, Nashville, Tennessee, in 1912–1913, and the University of Chicago from 1914 to 1916; received the degree of M.D. in 1918 from Rush Medical College, University of Chicago; was intern at the Cincinnati General Hospital for fifteen months, and at the Cook County Hospital in Chicago for six months; practiced in Akron, Ohio, for two years, and attended the graduate school in anatomy and pathology, University of Pennsylvania, 1921–1922. He entered The Mayo Foundation July 10, 1922 as a fellow in surgery; his services to January 1, 1926 included general diagnosis, nine months; orthopedics, three months; regional anesthesia, three months, and operative surgery, two years and three months. He became first assistant in one of the sections on surgery October 1, 1924. He is a member of the Los Angeles County Medical Society, the California State Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Phi Psi, and a diplomate of the National Board of Medical Examiners. His address is 6135 Hollywood Boulevard, Hollywood, California.

Allen M. Kilgore

Bibliography.—1. Changes in the blood resulting from duodenal fistula. A clinical and experimental study. Jour. Am. Med. Assn., 1926, lxxxvi, 186–189. (With W. Walters and J. L. Bollman.)

Kilgore, Franklin H., M.D., was born January 11, 1896 in Cedar Bayou, Texas; attended Southwestern University in 1915 and 1916, and the University of Texas from 1916 to 1921, receiving the degree of M.D. in 1921; was intern at the John Sealy Hospital, Galveston, Texas, for ten months in 1921 and 1922, and resident physician at the Municipal Hospital, Houston, Texas, from March, 1922 to February, 1923. He entered The Mayo Foundation May 15, 1923 as a fellow in medicine; his services included general diagnosis, fifteen months; dermatology and syphilology, three months; and pathologic anatomy, three and one-half months. He left The Mayo Foundation April 1, 1925, and is now practicing in Houston. He is a member of the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Fay Helen Jordan June 14, 1924. His address is Post-Dispatch Building, Houston, Texas.

Franklin H. Kilgore

Killins, Wendell A., M.D., was born October 10, 1897 in Council Bluffs, Iowa; attended the University of Iowa from 1915 to 1917, and the University of Nebraska from 1917 to 1921, receiving the degree of M.D. in 1921; was intern at the University Hospital, Omaha, Nebraska, in 1921 and 1922, and practiced with Dr. C. A. Roeder in Omaha from 1922 to September 1, 1923, when he entered The Mayo Foundation as fellow in medicine. His services to January 1, 1926 included general diagnosis, thirteen months; medical hospital service, six months; neurology, six months, and pathologic anatomy, three months. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, Sigma Nu, and Nu Sigma Nu. His address is Rochester, Minnesota.

Wendell A. Killins

Kindt, Eduard, M.D., was born January 5, 1892 in Laeby, Denmark; received the degree of M.D. in 1916 from the University of Copenhagen; was intern at Ambsaygebusch Hospital in Aarhus from January to August, 1917, and at the Gerundshospitalet in Copenhagen from November, 1917 to February, 1918, and practiced at the Maternal Hospital in Aarhus for three months and at the Lying-In Hospital of the City of New York for one month. He came to The Mayo Foundation April 1, 1918 as an American-Scandinavian fellow in surgery. His services consisted of surgical pathology, four months; operative surgery, six months, and urology, two months. He left The Mayo Foundation March 24, 1919, to return to Denmark, where he interned in Copenhagen at the Rigshospitalet one year, and at St. Joseph's Hospital six months. He served in the Danish Red Cross unit to Poland in 1920 and 1921, and was then sent by the Dutch government to Soekaboemi, Java, where he remained from April 1, 1921 to November, 1922 as chief surgeon of the Gewapende Polibies Hospital and civil "geneesheer" of the town. Since April 1, 1923 he has been practicing in Aalborg, Denmark. He is a member of the Almindelig dansk Lageforening and Jysk Medicinsk Selskab medical societies. He married Kyhn S. Agath March 23, 1922. His address is Osteraa 5, Aalborg, Denmark.

Eduard Kindt

Bibliography.—1. Kliniske ag experimenteile Undersogelser over Pyelograpi fra Mayo-Klinikken. Hospitalstidende, 1920, No. 1.

2. Unsere Erfahrungen mit Heilners Sanarthrit. Med. Klin., 1920, xxi, 1102–1106.

3. (Kidney calculus treated by systematic rinsing of the kidney and bladder.) Ugesk. f. Laeger, 1924, lxxxvi, 676.

King, Clapham P., M.D., was born July 12, 1889 in Harwood, Maryland; received the degree of M.D. from the University of Pennsylvania in 1912; was intern in the Casualty Hospital, Washington, D. C., from 1913 to 1914; was with the American Red Cross Relief Commission to Serbia six months, from 1914 to 1915, and served as First Lieutenant, Medical Corps, A. E. F., from July, 1917 to April, 1919. He was attached to the Royal Army Medical Corps from September, 1917 to April, 1918, stationed at Mobile Hospital 1 from April, 1918 to January, 1919, and at Evacuation Hospital 3 from January to April, 1919, when he was given the rank of Captain. He entered The Mayo Foundation August 18, 1915 as a fellow in surgery, but transferred his major to medicine in July, 1919; his services included general diagnosis, thirty-four months; surgery, seven months, and pathologic anatomy, six months. He was appointed first assistant in one of the sections on medicine, Mayo Clinic, July 20, 1919, and associate April 1, 1921. He resigned October 12, 1922 to practice in Washington, D. C. He is a member of the Medical Society of the District of Columbia, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. His address is 802 Medical Science Building, 1029 Vermont Avenue, N. W., Washington, D. C.

Clapham P. King

Kinsella, Thomas J., B.S., M.B., M.D., was born October 9, 1895 in Grand Meadow, Minnesota; attended the Montana State University from 1913 to 1915; received the degree of B.S. in 1917, of M.B. in 1919, and of M.D. in 1920, from the University of Minnesota, and was intern at the Minneapolis General Hospital from August, 1919 to August, 1920. He entered The Mayo Foundation September 1, 1920 as a fellow in medicine; his services included general diagnosis, thirteen months; medical hospital residence, three months, and in the summers of 1917 and 1918, while an undergraduate, surgical pathology, three months, and experimental surgery and pathology, three months. He left The Mayo Foundation January 1,

Thomas J. Kinsella

1922, was an assistant in surgery at the Nicollet Clinic, Minneapolis, for one year; associate physician at Cragmor Sanatorium, Colorado Springs, until July 1, 1925, and is now staff physician at the Glen Lake Sanatorium, Oak Terrace, Minnesota. He is a member of the Hennepin County Medical Society, the Minnesota State Medical Association, the American Medical Association, the Solly Tuberculosis Society, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Sara Monahan January 28, 1924. His address is Glen Lake Sanatorium, Oak Terrace, Minnesota.

Bibliography.—1. An epidemic of Bacillus dysenteriæ (Flexner) infection at Rochester, Minnesota, Summer, 1921. Journal-Lancet, 1923, xliii, 81–88. (With A. H. Logan.)
2. Case reports of certain diseases simulating tuberculosis. Southwest. Med., 1924, viii, 557–561. (With A. M. Forster.)
3. An immobilization apparatus for the chest. Tr. Am. Clin. and Climatological Soc., 1924, June. (With A. M. Forster.)
4. A pneumatic splint to immobilize the chest, for use in cases of pulmonary tuberculosis. Tr. Assn. Res. and Ex-Res. Phys. Mayo Clinic, 1925, vi, 247–251.

Kirsch, Ralph L., B.S., M.D., was born February 27, 1886 at Euclid, Minnesota; received the degree of B.S. in 1910, and of M.D. in 1912, from the University of Minnesota; was intern at the Nopeming Tuberculosis Sanatorium, Duluth, Minnesota, two months in 1912, and at the Minneapolis City Hospital six months in 1912 and 1913. He came to the Mayo Clinic July 1, 1913; his services included surgery, one year, and general diagnosis, five months. He left the Clinic in November, 1914, and practiced in Crookston, Minnesota, for ten years. During the war he was a member of the Advisory Board, Crookston. He left Crookston in August, 1924, and is now practicing surgery in Pasadena, California. He is a member of the Los Angeles County Medical Society, the California Medical Association, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Alpha Kappa Kappa. He married Elizabeth Mathews in May, 1915. His address is 871 East Washington Street, Pasadena, California.

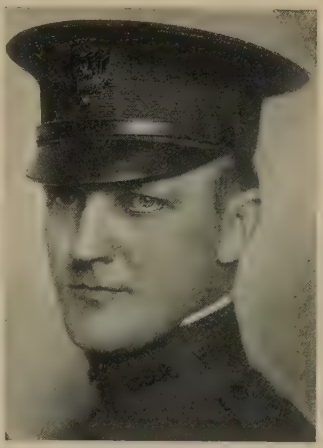
Ralph L. Kirsch

Kitchen, Hubert D., M.D.C.M., was born January 31, 1895 in Brandon, Manitoba; served in France and Belgium as Corporal in the Eleventh Canadian Field Ambulance from March, 1916 to December, 1918; received the degree of M.D.C.M. from the University of Manitoba in 1921; was intern in the Winnipeg General Hospital from June, 1920 to June, 1921, in the Civil Smallpox Hospital, Winnipeg, during June and July, 1921, and in the Manitoba Sanitarium for Consumptives, Ninette, Manitoba, the following month. He entered The Mayo Foundation October 15, 1921 as a fellow in medicine from the Rockefeller Foundation; his services included metabolism, nine months; general diagnosis and research, nine months, and medical hospital residence, one year. He left The Mayo Foundation July 1, 1924, to accept the position of an instructor in chemistry at the Manitoba Medical College. He is a member of the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Enid L. Armstrong September 14, 1922. His address is University of Manitoba, Winnipeg, Manitoba.

Hubert D. Kitchen

Bibliography.—1. Clinical observations on insulin. Jour. Metab. Res., 1922, ii, 701–728. (With R. M. Wilder, W. M. Boothby, S. F. Adams, and C. J. Barborka.)
2. Determination of the heat production in dogs by gasometer method. Am. Jour. Physiol., 1924, lxvii, 487–497.

Kittelson, Olaf, B.S., M.D., was born July 13, 1887 in Zumbrota, Minnesota; received the degree of B.S. in 1910, and of M.D. in 1912, from the University of Minnesota; practiced at Badger, Minnesota, four months in 1912, and was intern at the City and County Hospital, St. Paul, fourteen months, from 1913 to 1914. He entered the Mayo Clinic July 1, 1914 as a special student in internal medicine; his services included general diagnosis, eighteen months, and surgical pathology, three months. He left the Mayo Clinic July 20, 1916, and is now practicing medicine in Minneapolis. He is a member of the Hennepin County Medical Society, the Minnesota State Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. His address is 406 Physicians and Surgeons Building, Minneapolis, Minnesota.



Olaf Kittelson

Knauf, Arthur R., B.S., M.D., M.S. in Urology, was born August 24, 1890 in Sheboygan, Wisconsin; received the degree of B.S. from the University of Chicago in 1914, of M.D. from Rush Medical College, University of Chicago, in 1916, and of M.S. in Urology from the University of Minnesota in 1922; was intern in the Illinois Steel Company Hospital, Chicago, two months in 1916, and in the Cincinnati General Hospital, nine months, from 1916 to 1917; was assistant to Dr. Heidenfeld, dermatologist, at Cincinnati, six months during 1917; spent eighteen months from 1917 to 1919 in military service at Camp Greenleaf and at St. Louis, studying urology under Dr. Gaulk five months, and at Camp Grant Venereal Infirmary thirteen months. He entered The Mayo Foundation May 1, 1919 as a fellow in urology; his services included general diagnosis, three months; urology, sixteen months; dermatology and syphilology, six months; surgery, ten months, and surgical pathology, three months. He left The Mayo Foundation July 1, 1922, to become a member of the staff of the New Jersey State Hospital, Trenton, New Jersey, and was associated with Dr. E. L. Keyes,

Arthur R. Knauf

of New York City, for several months. He then practiced in Milwaukee, and is now practicing in Tampa, Florida. He is a member of the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. His address is 812 Citizen's Bank Building, Tampa, Florida.

Bibliography.—1. The late results of operations for the cure of exstrophy of the bladder. (Thesis, 1922.) Papers, Mayo Foundation and Medical School, University of Minnesota, 1921–1922, ii, 168–170.

Knight, Mary S., B.S., M.D., was born July 13, 1896 in Madisonville, Ohio; attended the University of Chicago, the University of Cincinnati, and Rush Medical College; received the degree of B.S. in 1918 from the University of Chicago, and the degree of M.D. in 1920 from Rush Medical College, University of Chicago; practiced with Dr. Robert Sattler in Cincinnati in 1920 and 1921, and was resident in the Ophthalmic Hospital, Cincinnati, from 1921 to July 1, 1922, when she entered The Mayo Foundation as a fellow in ophthalmology. Her services included ophthalmologic pathology, two years; surgical pathology, three months, and ophthalmology, six months. She was first assistant in the Section on Ophthalmology from April 1, 1924 to April 1, 1925, when she left the Mayo Clinic to practice ophthalmology in Cincinnati. She is a member of the American Medical Association and Alpha Omega Alpha. She married Dr. Eslie Asbury January 2, 1923. Her address is 707 Race Street, Cincinnati, Ohio.

Mary S. Knight

Bibliography.—1. Serous tenonitis. Am. Jour. Ophth., 1923, vi, 656–660. (With W. L. Benedict.)

2. Inflammatory pseudotumor of the orbit. New York State Jour. Med., 1923, xxiii, 435–440; also Arch. Ophth., 1923, lii, 582–593. (With W. L. Benedict.)

3. Two cases of melanotic tumor found in eyes that had been nucleated because of painful uveitis with phthisis bulbi. Surg. Clin. N. Amer., 1924, iv, 499–501.

4. Melanotic neoplasms of the eye. Jour. Am. Med. Assn., 1924, lxxxiii, 1062–1068.

5. A critical survey of neoplasms of the choroid. Am. Jour. Roentgenol., 1925, viii, 791–801.

Koons, Karl M., B.S., M.D., was born November 26, 1892 in Mulberry, Indiana; received the degree of B.S. in 1915, and of M.D. in 1917, from Indiana University, Bloomington; was intern in the Indianapolis City Hospital from 1917 to 1918, and served as First Lieutenant in the Cardiovascular Department of the Medical Research Laboratory, U. S. A., one year during the war. He entered The Mayo Foundation August 11, 1919 as a fellow in surgery; his services included general diagnosis, twenty months; orthopedic diagnosis, three months; postoperative treatment, three months (part time); surgical pathology, six months (part time, three months), and operative surgery, fifteen months. He left The Mayo Foundation January 1, 1923, and has since been practicing surgery in Indianapolis. He is a member of the Indianapolis Medical Society, the Indianapolis Academy of Medicine and Surgery, the Indiana State Medical Association, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Catherine Miller August 8, 1925. His address is 820 Medical Arts Building, Indianapolis, Indiana.

Karl M. Koons

Koster, Basil McD., M.D., C.M., was born July 12, 1899 in Toronto, Ontario; attended the University of Toronto from 1916 to 1920, and then McGill University, Montreal, where he received the degree of M.D. and C.M. in 1922; was intern at St. Michael's Hospital, Toronto, from 1922 to 1923, and from July, 1923 to February, 1924 he was doing laboratory work and demonstrating in pathology and neural anatomy at the University of Toronto, and worked in bacteriology at St. Mary's Hospital, Rochester, Minnesota, from February, 1924 to July 1, 1924, when he entered The Mayo Foundation as a fellow in surgery. His services to January 1, 1926 included general diagnosis, nine months, with part time research work in roentgenology; orthopedic diagnosis, three months, and surgical pathology, six months. He is a member of the

Basil McD. Koster

Olmsted County Medical Society, the Minnesota State Medical Association, the Academy of Medicine (Toronto), and the College of Physicians and Surgeons (Ontario). His address is Rochester, Minnesota.

Bibliography.—1. Developmental anomaly of cerebral cortex. Arch. Neurol. and Psychiat., 1924, xii, 167–172. (With E. A. Linell.)
2. Endothelioma of the corpus cavernosum penis: a case report. St. Michael's Hosp. Med. Bull., 1924, ii, 39–47. (With A. J. MacKenzie.)

Koucky, John D., B.S., M.D., M.S. in Surgery, was born October 27, 1897 at Lidgerwood, North Dakota; attended the University of North Dakota three years; received the degree of B.S. from the University of Chicago in 1918, of M.D. from Rush Medical College, University of Chicago, in 1920, and of M.S. in Surgery from the University of Minnesota in 1925. During the war he served as a seaman in the United States Navy. He was intern at the House of Correction Hospital, Chicago, one year; at the Gary Hospital, Indiana, three months, and at the Cook County Hospital, Chicago, one year. He entered The Mayo Foundation January 1, 1922 as a fellow in surgery; his services included general diagnosis, one year; orthopedic diagnosis, three months; orthopedic surgery, three months; operative surgery, one year, and surgical pathology, six months. He left The Mayo Foundation December 20, 1924, and is now practicing surgery in Chicago. He is also on the surgical staff of the University of Illinois Medical School. He is a member of the Chicago Medical Society, the American Medical Association, the Research Society of the University of Illinois, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Alpha Kappa Kappa. His address is 2755 West North Avenue, Chicago, Illinois.

John D. Koucky

Bibliography.—1. Ovarian dermoids: a study of 100 consecutive cases. Ann. Surg., 1925, lxxxi, 821–832.

Krebsbach, Clare, B.S., was born March 12, 1897 in Adams, Minnesota, and received the degree of B.S. from the College of St. Teresa, Winona, Minnesota, in 1920. She entered The Mayo Foundation September 6, 1920 as a fellow in pathology; her services included pathologic technic, seven months; clinical chemistry, six months; and research pathology, three years and three months. She left The Mayo Foundation in January, 1925, and is now working in the pathologic laboratory of the Mayo Clinic. Her address is Rochester, Minnesota.

Clare Krebsbach

Krogh, Harold W., D.D.S., was born November 28, 1899 at Necedah, Wisconsin. He received the degree of D.D.S. from the University of Minnesota in 1921, and entered The Mayo Foundation July 1, 1921 as a special student in dental surgery. From the time of leaving The Foundation in 1923 until January 1, 1926 he was dental surgeon at the State Hospital, Rochester, Minnesota, and also acted as dentist for the public schools of Rochester. He is now practicing dental surgery in Washington, D. C. He is a member of the Southeastern Minnesota Dental Association, the Minnesota State Dental Association, the American Dental Association, and an associate member of the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. His address is Suite 3, 1710 Rhode Island Avenue, Northwest, Washington, D. C.

Harold W. Krogh

Labat, Gaston, Bachelor and Laureate, M.D., was born December 11, 1877 in Mauritius, France; attended the Royal College of Mauritius, France, from 1890 to 1895; received the degree of Bachelor and Laureate from the Faculty of Sciences, University of Montpellier, France, in 1916, and of M.D. and Laureate of the Faculty of Medicine, University of Paris, in 1920. He was intern in surgery at l'Hôspital Général, Montpellier, from 1914 to 1915, extern in medicine from 1916 to 1917, and extern in surgery from 1917 to 1919 at La Pitié Hôspital, Paris, and assistant to Dr. Victor Pauchet in Paris from 1918 to 1920. From October 1, 1920 to September 29, 1921 he was special lecturer on regional anesthesia, The Mayo Foundation, Graduate School, University of Minnesota. Since leaving The Mayo Foundation he has established a practice in surgery and regional anesthesia in New York City. He is clinical professor of surgery, New York University, University and Bellevue Hospital Medical College, and an instructor in regional anesthesia at the New York University. He is a member of the New York County Medical Society, the American Medical Association, the American Society of Regional Anesthesia (Founder and President), the National Anesthesia Research Society, and the Society of Surgeons of Paris. He married M. M. Brunaud February 28, 1902. His address is 5 East Fifty-third Street, New York City.

Gaston Labat

Bibliography.—1. Amputation du sein pour cancer a l'anesthesie regionale. Presse méd., 1919, ix, 16–18.

2. Cure radicale de la hernie du colon "par glissement." Presse méd., 1919, xxvii, 182–184.

3. Pathogenie de la cholecystite calculeuse; la cholecystectomie a l'anesthesie regionale. Gaz. d. hôp., 1919, xcii, 702–704.

4. L'anesthesie splanchnique dans les interventions chirurgicales et dans les affections douloureuses de la cavite abdominale. Gaz. d. hôp., 1920, xciii, 662–664.

5. L'anesthesie para-vertebrale en chirurgie gastrique et intestinale. Paris, A. Legrand, 1920, 118 pp. (Thesis.)

6. L'anesthesie regionale (principles, applications, indications). Jour. méd. franc., 1920, ix, 366–369. (With V. Pauchet.)

7. Operations sur l'anus sous anesthesie regionale. Jour. de méd. de Par., 1920, xxxix, 442–444.

8. Regional anesthesia with special reference to "splanchnic analgesia": a new method applicable to abdominal surgery. Brit. Jour. Surg., 1921, viii, 278–284.

9. Regional anesthesia. A short review of the general principles. Ann. Surg., 1921, lxxiii, 165–169.

10. Regional anesthesia in surgery of the head. Minn. Med., 1921, iv, 195–198.

11. L'anesthesie regionale. Paris, O. Doin, 1921, 356 pp. (With V. Pauchet, and P. Sourdat.)
12. Sur la transfusion du sang. Paris chirurg., 1921, xiii, 543–548.
13. Latest achievements of the art of local, regional, and spinal anesthesia. Ann. Surg., 1921, lxxiv, 673–683.
14. Sur la transfusion du sang. Bull. et mém. Soc. de chir. de Par., 1921, xxxiii, 484–486.
15. Inguinal herniotomy under regional anesthesia. A new method of field-block. Surg., Gynec., and Obst., 1922, xxxiv, 398–403. (With W. R. Meeker.)
16. Posterior resection of the rectum and rectosigmoid (Kraske or modified) under regional anesthesia. Johns Hopkins Hosp. Bull., 1922, xxxiii, 134–140.
17. A propos de la transfusion sanguine. Bull. et mém. Soc. de chir. de Par., 1922, xiv, 57–59.
18. Regional anesthesia, its technic and clinical application. Philadelphia, Saunders, 1922, 496 pp.
19. In the light of regional anesthesia. Long Island Med. Jour., 1923, xvii, 471–477.
20. The induction of splanchnic analgesia from a clinical and anatomical standpoint. Ann. Surg., 1924, lxxx, 161–186.
21. Anesthesia. The predominant element in surgery. Current Res. Anesth. and Anal., 1925, iv, 29–35.
22. Spinal anesthesia. Surg. Clin. N. Amer., 1925, v, 567–570.
23. Sacral anesthesia. Minor points of major clinical importance. Brit. Jour. Anesthesia, 1925, iii, 5–20.
24. Regional anesthesia in cancer of the gastro-intestinal tract. Arch. Clin. Cancer Res., 1925, i, 77–93. (With J. L. Amster.)
25. A new outfit for local and regional anesthesia in dental and oral surgery. Internat. Jour. Orthodontia, 1925, xi, 959–963.

Lamson, Otis F., M.D., was born September 13, 1876 in Grant County, Wisconsin; attended Lafayette College, Easton, Pennsylvania, from 1901 to 1903; received the degree of M.D. from the University of Pennsylvania in 1907, and was intern in the Mercy Hospital, Denver, four months. He entered the Mayo Clinic April 1, 1908; his services, included surgery, fourteen months, and general diagnosis, nine months. He left the Mayo Clinic March 1, 1910 to practice surgery in Seattle. He is a member of the Seattle Surgical Society, the King County Medical Society, the Northern Pacific Surgical Association, the Western Surgical Association, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Armene Tashjian December 27, 1913. His address is 705 Broadway, Seattle, Washington.

Otis F. Lamson

Bibliography.—1. Duodenal ulcer. Northwest Med., 1912, iv, 51–53.
2. Intrathoracic goiter; report of two cases with marked displacement of trachea. Ann. Surg., 1914, lix, 191–194.
3. Cardiospasm. Northwest Med., 1915, vii, 103–106.
4. Some facts concerning gallbladder disease. Northwest Med., 1917, xvi, 108–112.
5. Intrathoracic goiter. Surg., Gynec., and Obst., 1918, xxvii, 397–402.
6. Operative treatment of fractures. Northwest Med., 1919, xviii, 106–109.
7. Recurrent nephrolithiasis. Ann. Surg., 1920, lxxi, 16–21.
8. Movable bodies in the knee-joint. Surg., Gynec., and Obst., 1921, xxxiii, 490–493.
9. Certain aspects of surgery of the gallbladder. Tr. Assn. Res. and Ex.-Res. Phys. Mayo Clinic, 1922, iii, 107–118; also Ann. Surg., 1923, lxxvii, 64–67.
10. Adhesions of the upper abdomen. Surg., Clin. N. Amer., 1924, iv, 1227–1235.
11. Chronic perforating duodenal ulcer with tumor formation. Surg. Clin. N. Amer., 1924, iv, 1237–1240.
12. Abdominal adhesions. (Editorial.) Surg., Gynec., and Obst., 1925, xli, 230–231.
13. Transplant for repair of postoperative ventral hernia. Tr. Assn. Res. and Ex-Res. Phys. Mayo Clinic, 1925, vi, 99–104.

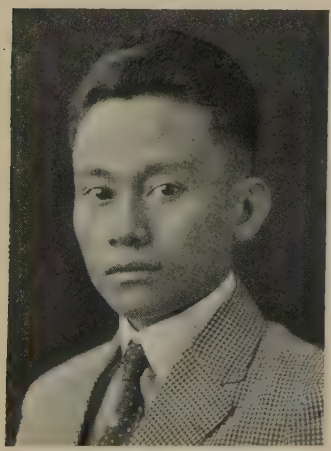
Lange, Alfred E., B.S., M.B., M.D., was born June 17, 1892 in St. Paul, Minnesota; received the degree of B.S. from Whitman College, Walla Walla, Washington, in 1915, of M.B. in 1919, and of M.D. in 1920, from the University of Minnesota, and was intern at the University Hospital, Minneapolis, from June, 1919 to June, 1920. He entered The Mayo Foundation July 1, 1920 as a fellow in medicine; his services included medical hospital residence, nine months; general diagnosis, eighteen months, and neurology, three months. He left The Mayo Foundation June 30, 1923 to enter practice in Walla Walla, Washington. He is a member of the Walla Walla Valley Medical Society, the Washington State Medical Association, and the American Medical Association. He married Ruth A. Wedge September 15, 1921. His address is 419 Baker Building, Walla Walla, Washington.

Alfred E. Lange

Lapp, Victor R., M.D., was born September 23, 1888 in Cobourg, Ontario; attended the University of Toronto from 1909 to 1911, and McGill University, Montreal, from 1913 to 1915 and from 1918 to 1921, receiving the degree of M.D. in 1921; was intern at the Hamilton General Hospital, Hamilton, Ontario, in 1921 and 1922, and practiced at the McGregor-Mowbray Clinic in Hamilton in 1922 and 1923. From 1915 to 1918 he was overseas in service. He entered The Mayo Foundation August 16, 1923 as a fellow in otolaryngology; his services to January 1, 1926 included laryngology, oral and plastic, thirteen and one-half months; otolaryngology, one year, and postoperative treatment, three months. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the Ontario Medical Association, and Phi Kappa Pi. He married Edna C. Ward October 13, 1922. His address is Rochester, Minnesota.

Victor R. Lapp

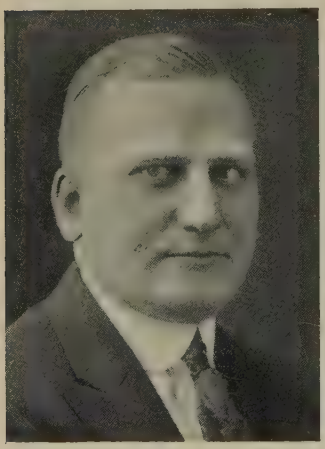
Lara, Casimiro B., M.D., was born March 4, 1896 in Magsingal, Ilocos Sur, Philippine Islands; received the degree of M.D. in 1919 from the University of the Philippines, Manila; was intern at the Philippine General Hospital, Manila, from June to December, 1919, and resident physician there from January, 1920 to March, 1922, and supervising physician at the Culion Leper Colony, Culion, from March, 1922 to July, 1924, receiving the appointment of chief physician at Culion in February, 1924. He entered The Mayo Foundation August 22, 1924 as a fellow in medicine from the Philippine government; his service to July 25, 1926 consisted of twenty-three months in experimental medicine, medical hospital service. He is a member of the Culion Medical Society and the Philippine Island Medical Association. He married Josefina Runez April 25, 1925. His address is Culion Leper Colony, Culion, Philippine Islands.



Casimiro B. Lara

Bibliography.—1. Cases of nontraumatic myelitis and their probable etiology. Jour. Philippine Islands Med. Assn., 1921, i, 58–62.
2. Observations on clinical aspects of leprosy treatment at Culion Leper Colony. Jour. Philippine Islands Med. Assn., 1923, iii, 241–247.
3. The ominous significance of leukopenia with either absolute or relative lymphocytosis in severe infections. Report of cases. Jour. Philippine Islands Med. Assn., 1923, iii, 291–298. (With A. G. Sison.)
4. A plea for the early recognition of leprosy, with notes on diagnosis and methods. Jour. Philippine Islands Med. Assn., 1924, iv, 132–140. (With H. W. Wade.)
5. Chief causes of death among lepers at the Culion Leper Colony. Jour. Philippine Islands Med. Assn., 1924, iv, 289–306; Abstract in Spanish, iv, 358–360. (With B. de Ver, J. C. Samson, and F. C. EnCanas.)
6. Complaints of patients under antileprosy treatment. I. Nature and frequency in cases receiving chaulmoogra ethyl ester preparations. Philippine Jour. Sc., 1924, xxv, 661–691. (With C. Nicolas and H. W. Wade.)

Larson, E. Eric, B.S., M.D., M.S. in Surgery, was born September 2, 1890 in Scandia, Kansas; received the degree of B.S. from the University of Chicago in 1917, of M.D. from Rush Medical College, University of Chicago, in 1919, and of M.S. in Surgery from the University of Minnesota in 1925; was intern at the Presbyterian Hospital, Chicago, from January to April, 1919, and at St. Joseph's Hospital, Chicago, from April, 1919 to April 1, 1920, when he entered The Mayo Foundation as a fellow in medicine; he transferred his major to surgery February 9, 1924. His services included general diagnosis and medical hospital residence, twenty-seven months; neurology, six months; neurologic surgery, three months, and operative surgery, eighteen months; he was first assistant in one of the sections on medicine, Mayo Clinic, one year, and first assistant in a section on surgery from October 1, 1923 until September 24, 1924, when he left The Foundation. He is now on the staff of the Woodland Clinic, Woodland, California. He is a member of the California Medical Association, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Elizabeth Turner December 28, 1923. His address is Woodland Clinic, Woodland, California.



E. Eric Larson

Bibliography.—1. Studies in diabetes insipus, water balance, and water intoxication. Arch. Int. Med., 1922, xxix, 306–330. (With L. G. Rowntree and J. F. Weir.)
2. The clinical study of diabetes and syphilis. (Unpublished thesis, 1923.)

Latchem, Raymond L., B.S., M.D., M.S. in Urology, was born September 16, 1885 in Crete, Nebraska; received the degree of B.S. from the University of Chicago in 1909, of M.D. from Rush Medical College, University of Chicago, in 1911, and of M.S. in Urology from the University of Minnesota in 1922; practiced in Walnut, Iowa, from 1911 to 1918, and from June, 1918 to January, 1919 served as First Lieutenant, Medical Corps, U. S. A., in the Venereal Section of the Base Hospital at Camp Pike, Little Rock, Arkansas. He entered The Mayo Foundation February 1, 1919 as a fellow in urology; his services included general diagnosis, four months; urology, sixteen months; surgery, one year; surgical pathology, three months, and dermatology and syphilology, three months. He left The Mayo Foundation April 1, 1922 to practice urology in Sioux City, Iowa. He is a member of the Woodbury County Medical Society, the Iowa State Medical Society, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Stella V. Wells September 28, 1909. His address is 308–310 Trimble Building, Sioux City, Iowa.

Raymond L. Latchem

Bibliography.—1. An experimental study of the ureter after nephrectomy. Jour. Urol., 1922, viii, 257–279.
2. Indications for urological examination. Jour. Iowa State Med. Soc., 1922, xii, 449–451.
3. The diagnosis of tuberculosis of the kidney. Journal-Lancet, 1922, xlii, 496–497.
4. Renal function in prostatic hypertrophy. Med. Herald, 1923, xlii, 60–62.
5. The hydronephrotic kidney. Jour. Iowa State Med. Soc., 1926, xvi, 60–62.

Latchford, James K., B.A., M.B., was born November 8, 1892 in Ottawa, Canada; received the degree of B.A. in 1914, and of M.B. in 1921, from the University College, University of Toronto, and from September, 1921 to June, 1922 had a fellowship in physiology and psychology in connection with part-time teaching in the Department of Physiology and Psychology at the University of Toronto. During the war he was in active service in France and England from 1916 to 1918, and from April to August, 1918 served as Captain in the Canadian Field Artillery, B. E. F. He entered The Mayo Foundation October 1, 1922 as a fellow in surgery. His services to January 1, 1926 included postoperative treatment, six months; pathologic anatomy, two years and three months, and general diagnosis, six months. He was first assistant in the Section on Pathologic Anatomy from January 1, 1924 to July 1, 1925. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Alpha Kappa Kappa. His address is Rochester, Minnesota.

James K. Latchford

Bibliography.—1. Effect of insulin (pancreatic extract) on sugar consumption of isolated surviving rabbit heart. Am. Jour. Physiol., 1922, lxii, 177–184. (With J. Hepburn.)
2. Sugar of arterial and venous blood during action of insulin. Am. Jour. Physiol., 1924, lxix, 555–567. (With J. Hepburn, N. A. McCormick, and J. J. R. MacLeod.)

Leech, Charles H., M.D., was born August 24, 1897 in Ruggles, Ohio; attended Ohio Wesleyan University from 1916 to 1918, and received the degree of M.D. in 1922 from Miami Medical College, University of Cincinnati, and was intern at the Christ Hospital, Cincinnati, from July, 1922 to July 1, 1923, when he entered The Mayo Foundation as a fellow in surgery. His services included postoperative treatment, three months; general diagnosis, one year; surgical pathology, three months; neurologic surgery, three months, and operative surgery, six months. He left The Mayo Foundation October 1, 1925 to enter the practice of surgery in Lima, Ohio. He is a member of the Allen County Medical Society, the Ohio State Medical Association, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Sigma Phi Epsilon, and Alpha Kappa Kappa. He married Lyla R. Robertson June 16, 1923. His address is 214 Steiner Building, Lima, Ohio.

Charles H. Leech

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Medical Association, the American Society of Clinical Investigation, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Alpha Omega Alpha, and Sigma Xi. He married Ethel M. Haines June 29, 1909. His address is Rochester, Minnesota.

Bibliography.—1. A case of double pneumonia with complete transient blindness succeeding. Can. Pract. and Rev., 1907, xxxii, 204–210.
2. Treatment of functional nervous conditions; with reference to cases. Can. Jour. Med. and Surg., 1907, xxii, 147–163.
3. The routine management of duodenal ulcer cases. Northwest Med., 1919, xviii, 179–184.
4. Mediastinal affections in childhood. Med. Clin. N. Amer., 1919, iii, 629–634.
5. Differential diagnosis of mediastinal affections. Med. Clin. N. Amer., 1919, iii, 635–651.
6. Chondroma of the thorax. Journal-Lancet, 1919, xxxix, 59–60.
7. Angioma of the stomach. Med. Rec., 1920, xcvii, 220–222.
8. Abscess of the lung. Can. Med. Assn., Jour., 1920, x, 1079–1090.
9. Epidemic infectious jaundice and its relation to the therapy of syphilis. Arch. Int. Med., 1920, xxvi, 521–543. (With J. H. Stokes and R. Ruedemann.)
10. Clinical and surgical experience in diseases of the chest with special reference to pneumothorax. Med. Clin. N. Amer., 1921, v, 295–305. (With A. R. Barnes.)
11. Clinical observations of Hodgkin's disease, with special reference to mediastinal involvement. Am. Jour. Med. Sc., 1921, clxii, 516–525. (With J. B. Doyle.)
12. A clinical study of fifty cases of pneumothorax. Jour. Iowa State Med. Soc., 1922, xii, 81–89.
13. Diagnosis of empyema. Can. Med. Assn. Jour., 1922, xii, 867–870.
14. The interrelationship and end results of chronic suppurative disease of the lungs. Arch. Surg., 1923, vi, 343–357.
15. The status of present-day methods of examination in the diagnosis of intestinal tuberculosis. Minn. Med., 1923, vi, 300–306.
16. Tuberculous enterocolitis. Minn. Med., 1923, vi, 572–578.
17. Comparison of constants for the determination of vital capacity. Arch. Int. Med., 1924, xxxiii, 118–127. (With H. J. Moersch.)
18. Vital capacity in relation to operative risk. Arch. Int. Med., 1924, xxxiii, 128–129. (With H. J. Moersch.)
19. Basal metabolism and vital capacity. Arch. Int. Med., 1924, xxxiii, 130–135. (With H. J. Moersch.)
20. Factors influencing vital capacity. Arch. Int. Med., 1924, xxxiii, 136–144. (With H. J. Moersch.)
21. Tuberculosis as an etiological factor in Hodgkin's disease: a historical review. Am. Jour. Med. Sc., 1924, clxvii, 178–188.
22. Gangrenous type of postoperative pneumonia. Southwest Med., 1924, viii, 536–552. (With A. E. Mahle.)
23. Ectopic adenomyoma: postoperative invasions of the abdominal wall. Arch. Surg., 1925, x, 150–162. (With A. E. Mahle.)
24. The differential diagnosis in cases of ectopic adenomyoma in the groin. Med. Clin. N. Amer., 1925, viii, 1125–1135. (With A. E. Mahle.)
25. Lipoma of the mediastinum. Med. Clin. N. Amer., 1925, viii, 1247–1256.
26. Intestinal tuberculosis. III. Clinical studies relating to diagnosis. Tr. Nat. Tuberc. Assn., 1925, xxi, 186–200.
27. A clinical survey of thirty cases of proved tuberculosis of the pleura. Surg., Gynec., and Obst., 1925, xli, 804–816.
28. Recent progress in diagnosis of thoracic diseases. Tr. Res. and Ex-Res. Phys. Mayo Clinic, 1925, vi, 305–308.
29. Aspiration. Experimental study. Arch. Surg., 1926, xii, 187–211.
30. Pulmonary actinomycosis: report of a case. Minn. Med., 1926, ix, 211–215.

Lepper, Lawrence E., M.D., was born December 22, 1886 in Blue Earth, Minnesota; took premedical courses at the University of Minnesota from 1906 to 1908; received the degree of M.D. from the University of California in 1912; was intern in the Los Angeles County Hospital, Los Angeles, from September, 1912 to January, 1914 and practiced in Pomona, California, from January, 1914 to June, 1917. He entered The Mayo Foundation June 1, 1917 as a fellow in surgery; his services included general diagnosis, thirteen months; surgery, nineteen months; postoperative care, two months; and urology (Medical School, Minneapolis), three months. His services were interrupted by the war; he was First Lieutenant in the Medical Corps, U. S. A., stationed at Camp Upton, Long Island, New York, from June, 1918 to June, 1919, when he returned to The Mayo Foundation. He remained until July 1, 1921, when he left to establish a practice in surgery at Los Angeles, California. He is a member of the Los Angeles Surgical Society, the Los Angeles County Medical Society, the Southern California Medical Association, the California Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Emily G. Young June 14, 1915. His address is 917 Brockman Building, Los Angeles, California.

Lawrence E. Lepper

Lewis, William H., B.A., M.D., F.A.C.P., was born December 21, 1881 in Cincinnati; received the degree of B.A. from the University of Cincinnati in 1903, and of M.D. from Miami Medical College, Oxford, Ohio, in 1906; was intern in the Cincinnati General Hospital eighteen months from 1906 to 1907; studied in Vienna and London in 1907, and practiced medicine in Cincinnati from 1908 to 1910. He entered the Mayo Clinic February 1, 1910, as clinical assistant. He left the Clinic May 1, 1914, and practiced in Newark, Ohio, until the war, when he served as Major in the military section of the American Red Cross in France. Since the war he has been clinical pathologist in the Harbin Hospital, Rome, Georgia. He is a member of the Southern Medical Association, the American College of Physicians, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Josephine Saunier in 1909. His address is Harbin Hospital, Rome, Georgia.

Bibliography.—1. Juvenile hyperthyroidism. St. Paul Med. Jour., 1914, xvi, 91–94.
2. Transformation of white blood cells into clasmatocytes (macrophages), epithelioid cells and giant cells. Jour. Am. Med. Assn., 1925, lxxxiv, 798–799.

Lillie, Harold I., B.A., M.D., F.A.C.S., was born May 6, 1888 in Grand Haven, Michigan; received the degree of B.A. in 1910, and of M.D. in 1912, from the University of Michigan; was intern in the University of Michigan Hospital from 1912 to 1915, and was Instructor in Otolaryngology at the University of Michigan from 1913 to 1915; was Instructor in Otolaryngology at Rush Medical College, University of Chicago, from 1915 to 1916, and practiced in Chicago from 1915 to 1917. He came to the Mayo Clinic April 1, 1917 as head of the Section on Otolaryngology and Rhinology. He is professor of otolaryngology and rhinology, The Mayo Foundation, Graduate School, University of Minnesota. During the war he was First Lieutenant in the Medical Reserve Corps, assigned as an essential teacher. He is a member of the Olmsted County Medical Society, the Southern Minnesota Medical Association, the Minnesota State Medical Association, the Minnesota Academy of Ophthalmology and Otolaryngology, the American Academy of Ophthalmology and Otolaryngology, the American Rhinological, Laryngological, and Otological Society, the American Laryngological Association, American Otological Society, the American College of Surgeons, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Oda Kittredge September 10, 1913. His address is Rochester, Minnesota.

Harold I. Lillie

Bibliography.—1. A case report (hysterical paralysis in the male). Tr. Clin. Soc. Univ. Michigan, 1914, v, 155.
2. Fulminating otitis media, mastoiditis, extensive sigmoid sinus thrombosis, ligation of internal jugular vein, recovery. Jour. Mich. Med. Soc., 1915, xiv, 183–186.
3. Operation for acute and sub-acute mastoiditis: Results in a series of sixty-five cases. Journal-Lancet, 1919, xxxix, 573–578. (With R. A. Barlow.)
4. Tonsillectomy in myositis and arthritis. Results in 200 consecutive cases. Jour. Am. Med. Assn., 1919, lxxii, 1214–1216. (With H. R. Lyons.)
5. Observations on the management of tuborrhea. Report of a series of twenty-five cases. Ann. Otol., Rhinol., and Laryngol., 1920, xxix, 658–665.
6. Mastoiditis, acute and sub-acute; results in a series of operated cases. Minn. Med., 1920, iii, 23–25. (With R. A. Barlow.)
7. Observations in the management of chronic frontal sinusitis with external manifestations. Report of twenty-two cases. Surg. Clin. N. Amer., 1921, i, 1381–1392.
8. Otalgia and mastoidalgia not indications for operation on the mastoid process. Report of three cases. Jour. Am. Med. Assn., 1922, lxxix, 431–434.
9. Infection of the sigmoid and lateral sinus. Report of a series of nineteen cases. Surg., Gynec., and Obst., 1922, xxxv, 418–431.
10. A septic type of temperature not referable to the ear in cases of acute suppurative otitis media. Ann. Otol., Rhinol., and Laryngol., 1922, xxxi, 990–994.

11. Treatment of disease of the accessory nasal sinuses. Ohio State Med. Jour., 1922, xviii, 834–836.
12. Some practical considerations of the physiology of the upper respiratory tract. Jour. Iowa State Med. Soc., 1923, xiii, 403–408.
13. The ear in general medical diagnosis. Minn. Med., 1924, vii, 15–17.
14. Suppurative labyrinthitis. Surg. Clin. N. Amer., 1924, iv, 513–520.
15. A quantitative study of hearing with and without cotton plug protheses in the middle ear. Ann. Otol., Rhinol., and Laryngol., 1924, xxxiii, 458–471. (With F. W. Kranz.)
16. The technique of the tonsil operation. (Editorial.) Surg., Gynec., and Obst., 1924, xxxix, 365.
17. Staphylococcus septicemia secondary to mastoiditis and sigmoid sinus thrombosis. Operation and recovery: report of case. Arch. Otolaryngol., 1925, i, 283–285. (With J. B. Stevens.)
18. Certain diagnostic problems in otology. Surg. Clin. N. Amer., 1925, v, 855–866. (With C. M. Anderson.)
19. Osteomyelitis of the cranial bones secondary to paranasal sinus operations. Ann. Otol., Rhinol., and Laryngol., 1925, xxxiv, 353–360.
20. Choked discs in association with surgical mastoid disease without apparent intradural involvement. Arch. Otolaryngol., 1925, ii, 355–361. (With W. I. Lillie.)
21. The effect of environment on the upper respiratory tract. Minn. Med., 1925, viii, 512–516.
22. The unsatisfactory effects of postoperative irrigation in certain cases of chronic suppurative paranasal sinusitis. Tr. Am. Laryngol., Rhinol., and Otol. Soc., 1925.
23. Pain syndromes following intranasal operative procedures. Tr. Am. Laryngol., Rhinol., and Otol. Soc., 1925.

Lillie, Walter I., M.D., M.S. in Ophthalmology, was born November 5, 1891 in Grand Haven, Michigan; attended the University of Michigan from 1909 to 1915, receiving the degree of M.D. in 1915; received the degree of M.S. in Ophthalmology in 1922 from the University of Minnesota; was intern in the University of Michigan Hospital from June, 1915 to June, 1916, and practiced at Flint, Michigan, the following year. He came to the Mayo Clinic July 1, 1917 as first assistant in the Section on Ophthalmology, and was appointed associate in 1921. He has also held a fellowship on The Mayo Foundation. He is now an instructor in ophthalmology, The Mayo Foundation, Graduate School, University of Minnesota. From August, 1917 to March, 1919 he was First Lieutenant in the Medical Reserve Corps, A. E. F. He is a member of the Olmsted County Medical Society, the Southern Minnesota Medical Association, the Minnesota State Medical Association, the Minnesota Academy of Eye, Ear, Nose, and Throat, the Ameri-

Walter I. Lillie

can Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Opal C. Jones August 30, 1916. His address is Rochester, Minnesota.

Bibliography.—1. A mechanism producing abdominal distension. Jour. Nerv. and Ment. Dis., 1917, xlvi, 35–39.
2. Ocular phenomena in cases of chiasmal lesions not of pituitary origin: Report of six cases. Surg. Clin. N. Amer., 1921, i, 1363–1380.
3. Tryparsamid treatment of syphilis of the central nervous system. Observations from an ophthalmologic standpoint. Jour. Am. Med. Assn., 1924, lxxxiii, 809–813.
4. Ocular phenomena in acromegaly. Am. Jour. Ophthal., 1925, viii, 32–39.
5. Choked discs in association with surgical mastoid disease without apparent intradural involvement. Arch. Otolaryngol., 1925, ii, 355–361. (With H. I. Lillie.)
6. Ocular phenomena produced by temporal lobe tumors. Jour. Am. Med. Assn., 1925, lxxxv, 1465–1468.

Lockwood, Ambrose L., M.D.C.M., F.A.C.S., was born March 30, 1888 at Westport, Ontario; received the degree of M.D.C.M. from McGill University, Montreal, in 1910; was intern at the New York Hospital and the Riverside Hospital, New York, two years; studied at clinics in Heidelberg and Berlin for one and a half years, and practiced for one and a half years at Sudbury, Ontario. He served on the surgical staff of the Royal Army Medical Corps, B. E. F., for four and one-half years with the rank of Major. He received the D. S. O. medal and the military cross. He was appointed an assistant in the Division of Surgery, Mayo Clinic, in January, 1920, and was later appointed associate. He left the Clinic in March, 1922, and is director of the Lockwood Clinic, Toronto, Canada. He is a member of the Ontario Medical Society, the American Society of Military Surgeons, the Canadian Medical Society, the American Medical Association, the American Society for Thoracic Surgery, the American College of Surgeons, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. His address is Lockwood Clinic, 164 Bloor Street East, Toronto, Ontario.

Ambrose L. Lockwood

Bibliography.—1. Observations on the treatment of gunshot wounds of the knee-joint. Brit. Med. Jour., 1916, i, 153–155.
2. Observations on the treatment of gunshot wounds of the abdomen, with a summary of 500 cases seen in an advanced casualty clearing station. Brit. Med. Jour., 1917, i, 317–320. (With C. M. Kennedy, R. B. Macfie and S. F. A. Charles.)
3. Observations on war surgery of the chest. Brit. Med. Jour., 1918, i, 105–109; 145–149. (With J. A. Nixon.)

4. Early operative treatment in chest surgery. War Med., 1918, ii, 6–10.
5. Subdiaphragmatic abscess. Surg., Gynec., and Obst., 1921, xxxiii, 502–516.
6. Developments and possibilities of thoracic surgery. Surg. Clin. N. Amer., 1921, i, 1425–1450.
7. Amputations. Jour. Am. Med. Assn., 1922, lxxix, 1490–1496.
8. Abscess of the lung. Tr. Am. Soc. Thoracic Surgery, 1922, April; also, Surg., Gynec., and Obst., 1922, xxxv, 461–492.
9. A résumé of the surgical treatment of duodenal ulcer. Can. Pract. and Rev., 1922, Nov.
10. Lung abscess. Arch. Surg., 1923, vi, 314–320.
11. Surgical possibilities in traumatic rupture of the intestine. Can. Med. Assn. Jour., 1923, xiii, 311–318.
12. Empyema: acute and chronic. Can. Med. Assn., Jour., 1924, xiv, 941–943.
13. Scope of thoracic surgery. Arch. Surg., 1925, x, 280–292.

Logan, Arch H., M.D., was born June 25, 1877 in Pittsburgh; attended Washington and Jefferson College, Washington, Pennsylvania, from 1896 to 1898; served as private and corporal in 1898, during the Spanish-American war; received the degree of M.D. from the University of Pennsylvania in 1907; was intern in Mercy Hospital, Pittsburgh, from July, 1907 to July, 1908; was Instructor in Medicine, University of Pittsburgh from 1908 to 1909 and practiced in Pittsburgh from August, 1908 to January, 1910. He came to the Mayo Clinic January 1, 1910 as an assistant in the Division of Medicine. January 1, 1911 he was appointed head of a section in the Division of Medicine. He is associate professor of medicine, The Mayo Foundation, Graduate School, University of Minnesota. He is a member of the Olmsted County Medical Society, the Southern Minnesota Medical Association, the Minnesota State Medical Association, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Amy H. Dunlap in 1908. His address is Rochester, Minnesota.

Arch H. Logan

Bibliography.—1. The significance of Lamblia intestinalis in stool examinations. Jour. Lab. and Clin. Med., 1916–1917, ii, 618–621. (With A. H. Sanford.)
2. Chronic ulcerative colitis. A review of 117 cases. Northwest Med., 1919, xviii, 1–9.
3. Balantidium coli and pernicious anemia: Report of four cases. Am. Jour. Med. Sc., 1921, clxii, 669–674.
4. Three cases of chronic ulcerative colitis cured by iodin. Med. Clin. N. Amer., 1923, vii, 105–112.
5. Chronic ulcerative colitis: its clinical and radiological aspects. Radiology, 1924, ii, 302–304.

6. The etiology of chronic ulcerative colitis. Experimental studies with suggestions for a more rational form of treatment. Arch. Int. Med., 1925, xxxvi, 818–829. (With J. A. Bargen.)
7. Idiopathic ulcerative colitis with special reference to etiology and treatment. Illinois Med. Jour., 1926. xlix, 111–116.

Logie, H. Burton, B.A., M.D., C.M., was born May 16, 1883 in Chatham, New Brunswick; received the degree of B.A. in 1903 from the University of New Brunswick, Fredericton, and of M.D., C.M. in 1910 from McGill University, Montreal; was intern at the Royal Victoria Hospital in Montreal in 1910 and 1911; took graduate study in European clinics the following year, and practiced in Edmonton, Alberta, from 1919 to 1924. From 1915 to 1918 he served in England and France as Captain in the Canadian Army Medical Corps. In 1923 and 1924 he was assistant professor of medicine at the University of Alberta in Edmonton. January 1, 1925 he came to the Mayo Clinic as Associate Editor in the Division of Publications. He is a member of the College of Physicians and Surgeons of British Columbia, the College of Physicians and Surgeons of Alberta, and Alpha Kappa Kappa. He married A. Margaret Harrison January 9, 1915. His address is Rochester, Minnesota.

H. Burton Logie

Long, William H., M.D., was born July 30, 1888 in Elysian, Minnesota; attended the University of Minnesota from 1906 to 1912, receiving the degree of M.D. in 1912; was intern in the City and County Hospital, St. Paul, one year, and practiced medicine in Biwabik, Minnesota, two years, and in Dickinson, North Dakota, six years. During the war he served as Captain of the Medical Corps at Camp Funston, Kansas, was a member of examining boards on tuberculosis and cardiac diseases, and was in charge of the wards for respiratory disorders at Base Hospital 34, A. E. F. He was appointed first assistant in one of the sections on medicine of the Mayo Clinic in March, 1921, and an associate in March, 1922. He left the

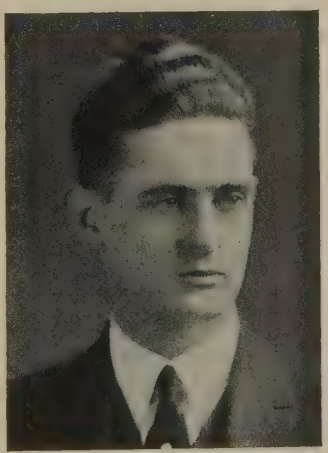
William H. Long

Mayo Clinic July 1, 1925, and six months later went to Fargo, North Dakota, where he is on the staff of the Dakota Clinic. He is a member of the Cass County Medical Society, the North Dakota State Medical Association, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Mary V. Tisdale December 10, 1913. His address is Dakota Clinic, Fargo, North Dakota.

Bibliography.—1. The prevention of heart disease and its consequences. Journal-Lancet, 1925, xlv, 490-492.

Looney, John J. W., M.D., was born January 21, 1880 in Memphis, Tennessee; received the degree of M.D. from the University of Virginia in 1909; was intern at the University of Virginia Hospital, and at the Manhattan Eye and Ear Infirmary, New York City, and practiced at Fort Smith, Arkansas, from 1909 to 1914, his practice being limited to diseases of the eye, ear, nose, and throat. He came to the Mayo Clinic in September, 1914 as an assistant in the Department of Ophthalmology. He left the Clinic in July, 1918, and is practicing otology, ophthalmology, and rhinology at Rocky Mount, North Carolina. He is a member of the Medical Society of the State of North Carolina, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Eveline Mackreth November 24, 1909. His address is Rocky Mount, North Carolina.

Lowell, Harry M., M.D., was born May 18, 1892 in Stevens Point, Wisconsin; attended the University of Chicago from 1908 to 1910, and received the degree of M.D. from Northwestern University, Chicago, in 1914. He entered the Mayo Clinic July 1, 1914, and was on the postoperative service seven months. From February, 1915 to September, 1916 he was intern in Cook County Hospital, Chicago. He then entered The Mayo Foundation as a fellow in surgery, and his services included general diagnosis, five and one-half months; dermatology, two and one-half months, and roentgenology, one and one-half months. He left The Mayo Foundation in June, 1917 to enter military service; he was Captain in the Medical Corps at Camp Grant, Illinois, and later was with Ambulance Company 342 in France. Since 1919 he has been practicing in Hamilton, Ohio. He is



Harry M. Lowell

a member of Butler County Medical Society, the Union District Medical Society, the Ohio State Medical Association, the American Roentgen Ray Society, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Mary McDonough July 10, 1918. His address is 213 Rentschler Building, Hamilton, Ohio.

Bibliography.—1. A new method of treating infections. Tr. Res. and Ex-Res. Phys. Mayo Clinic, 1925, vi, 219–225.

Luden,* Georgine M., Artz., M.D., Ph.D. in Pathology, was born July 28, 1875 in the Netherlands at Amsterdam; received her elementary education from a governess and in boarding schools in the Netherlands and in England, and entered the Ludwig-Maximilian University at Munich in Bavaria in 1905, after having prepared by private tuition which included learning German for the "university entrance examination" (this examination is equivalent to the English B.A.; no degree is given for it, but no degree of any kind can be obtained without it). At the University of Munich she was a pupil of Friedrich v. Müller, Kraepelin, Max v. Borst, and others. She received the degree of physician (Artz), which is similar to qualification before the National Board of Medical Examiners in the U. S. A., in 1911, and the degree of M.D. (*summa cum laude*) was received from the University of Munich in 1912; was an intern six months at the Pathologic Institute of Professor Max v. Borst in Munich; two months at the Surgical Polyclinic in Munich; four months at the Medical Clinic in Munich; received the degree of Ph.D. in Pathology from the University of Minnesota June 17, 1920. She came to the Mayo Clinic as a visiting physician during a trip to the chief medical centers of the U. S. A. in 1912 and 1913; became a volunteer worker in cancer research at the Mayo Clinic in January, 1914, and on The Mayo Foundation in 1917, where she has been engaged in investigations on the biochemical aspects of malignancy. She has been listed on the Mayo Clinic staff as volunteer in cancer research, 1914 to 1915; volunteer fellow on The Mayo Foundation, 1915 to 1920; first assistant in pathologic research, 1920 to 1921; first assistant in cancer research, 1921 to 1923, and an associate in cancer

Georgine M. Luden

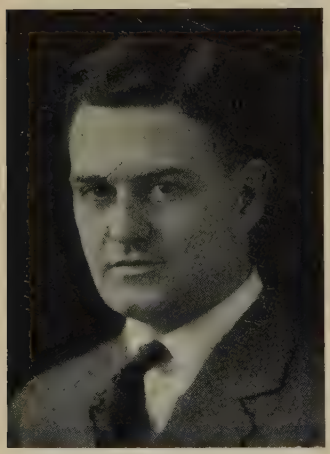
* The full family name is Luden van Heumen; Heumen is the family property, the name of which often forms part of the family name in the Netherlands to denote various branches of a family.

research from 1923 to the present time. She is a member of the Olmsted County Medical Association, the Southern Minnesota Medical Association, the Minnesota State Medical Association, the American Medical Association, the American Association for Cancer Research, the Association for the Study of Internal Secretions, the Medical Women's International Association, the American Association for the Advancement of Science, the International Association of Medical Museums, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. Her address is Rochester, Minnesota.

Bibliography.—1. Ueber einen atypischen Fall von progressiver Muskel-Atrophie (Typus Charcot-Marie). Thesis. Munich, Rudolph Müller and Steinicke, 1912.
2. Rapid method for staining myelin sheaths and axis cylinders simultaneously (Weigert modified); suitable for celloidin paraffin and frozen sections. Bull. Internat. Assn. Med. Museums, 1913, iv.
3. Ueber eine neue Schnellfärbund für Markscheiden und Aschenzylinder zu gleicher Zeit (Weigert-Modification), verwendbar für Celloidin- und Gefrierschnitte. Centralbl. f. allg. Path. u. path. Anat., 1912, xxiii, 97–100, 385–386.
4. Studies on a cell (Zehbe's) found in cases of human carcinoma and mixed tumor. Jour. Cancer Res., 1916, i, 115.
5. The cytology of normal goats' blood. Internat. Assn. Med. Mus. Bull., 1916, vi, 73–92.
6. Observations on cholesterin retention as a factor in cell proliferation. Jour. Lab. and Clin. Med., 1915–1916, i, 662–676.
7. Report of a case of multiple tumor-formation, pathological changes and high cholesterin value in the blood. Jour. Cancer Res., 1916, i, 369–373.
8. Observations on the changes in the cholesterol content of the blood of goats, following cholesterol feeding alone, roentgen treatment alone, and cholesterol feeding combined with roentgen treatment and subsequent castration. Jour. Biol. Chem., 1916, xxvii, 273–297.
9. Studies on cholesterol. III. The influence of bile derivatives in Bloor's cholesterol determination. Jour. Biol. Chem., 1917, xxix, 463–476. Also: Jour. Lab. and Clin. Med., 1917, iii, 93–109.
10. Studies on cholesterol. IV. Experiments concerning the relation of the diet, the blood cholesterol, and the "lymphoid defense." Jour. Lab. and Clin. Med., 1917, iii, 141–174.
11. Studies on cholesterol. V. The blood cholesterol in malignant disease and the effect of radium treatment on the blood cholesterol. Am. Jour. Physiol., 1918, xlv, 580–581. Also: Jour. Lab. and Clin. Med., 1918, iv, 849–864.
12. Studies on cholesterol. VI. The value of blood cholesterol determinations and their place in cancer research. Jour. Lab. and Clin. Med., 1919, iv, 719–735.
13. Studies on cholesterol. VII. Metabolic disturbances as an etiologic factor in carcinoma. The influence of cholesterol metabolism and other factors. Papers from the Mayo Foundation and the Medical School of the University of Minnesota, Philadelphia, Saunders, 1921, i, 550–558. (Abstract.)
14. Chronic carbon monoxid poisoning, its immediate and subsequent manifestations. Modern Med., 1921, iii, 102–106, 167–170.
15. The importance of visualizing established scientific data with reference to the size of the body cells and their chemical supplies in the circulating blood. Endocrinology, 1921, v, 715–728.
16. The blood cholesterol, its importance, and the value of its determination in cancer research. Can. Med. Assn. Jour., 1922, xii, 147–152.

17. Progress in cancer research. Minn. Med., 1922, v, 519–523.
18. Cancer and chemistry. Med. Women's Jour., 1923, xxx, 1–4.
19. The value of the hospital laboratory; to the patient, to the physician, and to the modern hospital. Hosp. Prog., 1923, iv, 60–63.
20. Chemical and cytologic changes in the blood of patients with carcinoma, during radiotherapy combined with dietetic measures. (Abst.) Collected Papers Mayo Clinic and Mayo Foundation, 1923, xv, 734–735.
21. The chemistry of the blood as a "clinical thermometer." Med. Women's Jour., 1924, xxxi, 152–159.

Lundy, John S., B.A., M.D., was born July 6, 1894 in Inkster, North Dakota; received the degree of B.A. in 1917 from the University of North Dakota, and of M.D. in 1920 from Rush Medical College, Chicago; was intern at the Harper Hospital, Detroit, Michigan, in 1919 and 1920 and practiced in Seattle, Washington, from October, 1920 to April 1, 1924 when he came to the Mayo Clinic as head of the Section on Regional Anesthesia, and July 1, 1925 was made instructor in regional anesthesia, The Mayo Foundation, Graduate School, University of Minnesota. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the American Medical Association, Beta Theta Pi, and Alpha Kappa Kappa. He married Lenore Mittelstadt September 5, 1925. His address is Rochester, Minnesota.



John S. Lundy

Bibliography.—1. Keeping anesthetic records, and what they show. Am. Jour. Surg., 1924, xxxviii (Anesthesia suppl.), 16–26.
2. Ethylene and oxygen as an anesthetic for infants. Jour. Am. Med. Assn., 1924, lxxxii, 448–449.
3. Ethylene: its value in relation to other anesthetic agents. Northwest Med., 1924, xxiii, 126–130.
4. The comparative value of ethylene as an anesthetic. Jour. Am. Med. Assn., 1924, lxxxiii, 350–355.
5. An easy method of inducing local anesthesia for simple amputation of the breast. Jour. Am. Med. Assn., 1925, lxxxv, 824.
6. The administration of ethylene-oxygen. Jour. Iowa State Med. Soc., 1925, xv, 371–373.
7. Splanchnic block. Surg. Clin. N. Amer., 1925, v, 887–893.
8. Anesthesia by nitrous oxid, ethylene, carbon dioxid, and oxygen for dental operations on children. Dental Cosmos, 1925, lxvii, 906–909.
9. Carbon dioxid as an aid in general diagnosis. Jour. Am. Med. Assn., 1925, lxxxv, 1953–1955.
10. An improved syringe and needle for use in regional anesthesia. Surg., Gynec., and Obst., 1926, xlii, 563-565.

11. I. The comparative value of various types of regional anesthesia from July 1, 1924 to July 1, 1925. Northwest Med., 1926. (In press.)
12. Incidence of pulmonary complications following ether and ethylene-ether anesthesia for surgical procedures in the upper abdomen. Med. Jour. and Rec., 1926, cxxiv, 87–93.
13. Sacral anesthesia in operations on the rectum. Atlantic Med. Jour., 1926. (In press.) (With C. F. McCuskey.)
14. Balanced anesthesia. Minn. Med., 1926, ix, 399-404.

Lyday, Russell O., B.S., M.D., was born August 25, 1893 in Penrose, North Carolina; attended Trinity College, Durham, North Carolina, and the University of North Carolina, from which he received the degree of B.S. in 1918, and the degree of M.D. in 1920 from the University of Pennsylvania; was intern in the Philadelphia General Hospital from October, 1920 to April, 1922 and at the St. Christopher's Hospital for Children, Philadelphia, and the Shreveport Charity Hospital for three months, and practiced in Brevard, North Carolina, from June to October, 1920 and from May to October, 1922. He entered The Mayo Foundation January 1, 1923 as a fellow in surgery. His services to January 1, 1926 included radium therapy, three months; regional anesthesia, three months; general diagnosis, one year; orthopedic surgery, three months; neurologic surgery, three months, and operative surgery, one year, with part time (three months) in surgical pathology. He was made first assistant in a section on surgery January 1, 1926. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the American Medical Association, and Phi Chi. His address is Rochester, Minnesota.

Russell O. Lyday

Lynch, George V., B.S., M.D., was born November 18, 1887 in Winona, Minnesota; received the degree of B.S. from the University of Michigan in 1914, and of M.D. from the University of Minnesota in 1917; was intern at the City and County Hospital, St. Paul, from 1916 to 1917 and resident physician from 1917 to 1918. During the war he was First Lieutenant in the Medical Corps, U. S. A., on active duty at Fort Riley from May, 1918 to May, 1919. He entered The Mayo Foundation as a fellow in surgery, June, 1919; his services included general diagnosis, one year, and surgery, two years. He left The Mayo Foundation in May, 1922 and is practicing surgery at Oshkosh, Wisconsin. He is a member of the Winnebago County Medical Society, the Wisconsin State Medical Association, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Hazel C. Cheswick December 28, 1921. His address is City National Bank Building, Oshkosh, Wisconsin.

George V. Lynch

Lyons, Donald C., D.D.S., was born May 5, 1889 in Jackson, Michigan; attended Michigan Agricultural College from 1917 to 1918, and the Dental School of the University of Michigan from 1918 to 1921; receiving the degree of D.D.S. in 1921, and practiced dentistry at Jackson, Michigan, during 1921. He entered The Mayo Foundation January 1, 1922 as a special student in dental surgery, and left June 15, 1923, to resume practice in Jackson. He is also connected with the Extension Department of the Public Health Service of the University of Michigan. He is a member of the Second District Dental Society, the Michigan State Dental Association, and the American Dental Association. He married Gertrude Rosecrans September 22, 1922. His address is 618 Dwight Building, Jackson, Michigan.

Donald C. Lyons

Bibliography.—1. The necessity of routine full-mouth roentgenograms in dental diagnosis. Dental Sum., 1922, xlii, 879–882.
2. Oral roentgenology in the practice of group medicine. Dental Sum., 1922, xlii, 1017–1023. (With B. S. Gardner.)
3. The etiologic factors in the retention of deciduous teeth. Dental Cosmos, 1923, lxv, 475–479.
4. The importance of the early recognition of dental disorders in children. Dental Cosmos, 1924, lxvi, 535–538.

Lyons, Horace R., M.D., M.S. in Otolaryngology, was born July 14, 1891 in Joliet, Illinois; attended the University of Michigan from 1910 to 1914; received the degree of M.D. from Northwestern University, Chicago, in 1916, and of M.S. in Otolaryngology from the University of Minnesota in 1920, and was intern at the Michael Reese Hospital, Chicago, from 1916 to 1917. He was commissioned First Lieutenant, Medical Reserve Corps, during the war, but had no active service. He entered The Mayo Foundation July 1, 1917 as a fellow in otolaryngology, later became first assistant in the Section on Otolaryngology and Rhinology, Mayo Clinic, and January 1, 1921 was appointed associate. He was an instructor in rhinology and otolaryngology, Mayo Foundation, Graduate School, University of Minnesota, until he left The Mayo Foundation October 1, 1923 to practice in Chicago. He is now attending otolaryngologist at St. Luke's Hospital, Chicago. He is a member of the Chicago Medical Society, the Illinois State Medical Society, the American Medical Association, the American Academy of Ophthalmology and Otolaryngology, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Phi Beta Pi. He married Alice G. Murdock April 18, 1922. His address is 30 North Michigan Avenue, Chicago, Illinois.

Horace R. Lyons

Bibliography.—1. Tonsillectomy in myositis and arthritis. Results in 200 consecutive cases. Jour. Am. Med. Assn., 1919, lxxii, 1214–1216. (With H. I. Lillie.)
2. Bárány tests in supratentorial tumors proved by operation or necropsy. (Thesis.) Ann. Otol., Rhinol., and Laryngol., 1920, xxix, 898–918.
3. Puncture of the antrum of Highmore. Minn. Med., 1921, iv, 319–321.
4. The use of radium in the treatment of myxomatous nasal polyps: Preliminary report. Am. Jour. Roentgenol., 1921, viii, 407–408.
5. Empyema of the antrum of Highmore secondary to the extraction of teeth: A study of 100 cases. Jour. Am. Med. Assn., 1922, lxxviii, 486–487.
6. Radium in the treatment of nasal polyps. Am. Jour. Roentgenol., 1922, ix, 584–587.

7. Otitis media complicating operations on the gasserian ganglion. Jour. Am. Med. Assn., 1923, lxxx, 176–178; also Tr. Am. Acad. Ophth. and Oto-Laryngol., 1922, xxvii, 364–372; also Ann. Otol., Rhinol., and Laryngol., 1923, xxxii, 457–463.
8. Unusual complications of acute tonsillitis. Jour. Am. Med. Assn., 1923, lxxxi, 1605–1606.
9. Peri-sinus abscess. Jour. Laryngol., Rhinol., and Otol., 1926. (In press.)

Lyons, John H., B.S., M.D., M.S. in Surgery, was born October 25, 1891 in Washington, D. C.; received the degree of M.D. in 1918, and of B.S. in 1919, from George Washington University, Washington, D. C., and of M.S. in Surgery in 1923 from the University of Minnesota, and was intern at the Emergency Hospital in Washington from May, 1918 to July, 1919. He entered The Mayo Foundation August 13, 1919 as a fellow in surgery; his services included pathologic anatomy, four and one-half months; general diagnosis, one year; medical hospital residence, six months, and operative surgery, two years and six months. He was first assistant in one of the sections on surgery from January 1, 1923 until December 26, 1923, when he left The Mayo Foundation; he is now practicing surgery in Washington, D. C. He is a member of the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. His address is 1344 Nineteenth Street Northwest, Washington, D. C.

John H. Lyons

Bibliography.—1. Resection of the body of the stomach for ulcer. Ann. Surg., 1922, lxxvi, 409–420. (With E. S. Judd.)
2. White bile in the common duct. Ann. Surg., 1923, lxxvii, 281–292. (With E. S. Judd.)
3. Lesions of the stomach. Jour. Tennessee Med. Assn., 1923, xvi, 41–45. (With E. S. Judd.)
4. The mortality following operations on the liver, pancreas, and biliary passages, a statistical study. Ann. Surg., 1923, lxxviii, 194–204. (With E. S. Judd.)
5. Linitis plastica. Surg., Gynec., and Obst., 1924, xxxix, 34–38.
6. Surgery of the stomach. Surg. Clin. N. Amer., 1924, iv, 319–324. (With E. S. Judd.)

Lyons, Shirley C., M.D., was born July 9, 1895 in Sulphur, Louisiana; attended Louisiana State University from 1913 to 1914; received the degree of M.D. from Tulane University, New Orleans, in 1919, and was intern at the Charity Hospital, New Orleans, from April, 1919 to April, 1921. He entered The Mayo Foundation May 15, 1921 as a fellow in surgery; his services included general diagnosis, ten and one-half months; postoperative treatment, three months; medical hospital residence, three months; surgical pathology, nine months, and operative surgery, twenty-two and one-half months. He was first assistant in one of the sections in the Division of Surgery from July 1, 1924 until November 11, 1924, when he left The Mayo Foundation to enter the practice of surgery in New Orleans; he is also teaching anatomy at Tulane University. He is a member of the Orleans Parish Medical Society, the Louisana State Medical Association, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Alpha Kappa Kappa, and Phi Kappa Sigma. He married Marian Brown June 30, 1922. His address is 636 Common Street, New Orleans, Louisiana.

Shirley C. Lyons

Bibliography.—1. Pneumothorax therapy in pulmonary tuberculosis. New Orleans Med. and Surg. Jour., 1925, lxxvii, 515–520.

MacCarty, William C., B.S., M.S., M.D., F.A.C.P., was born June 10, 1880 in Louisville, Kentucky; received the degree of B.S. in 1900, and of M.S. in 1909, from Kentucky State University; was instructor in botany in that institution one year; received the degree of M.D. in 1904 from Johns Hopkins University, Baltimore, and was Assistant Pathologist in the Königin Augusta Hospital, Berlin, Germany, from 1904 to 1906. He came to the Mayo Clinic January 25, 1907 as assistant pathologist. Since 1909 he has been head of Section A on Surgical Pathology, Mayo Clinic, and professor of pathology, The Mayo Foundation, Graduate School, University of Minnesota. He is a member of the Olmsted County Medical Society,

William C. MacCarty

Osler Medical Historical Society, Southern Minnesota Medical Association, Minnesota State Medical Association, Minnesota Pathological Society, Chicago Medical Historical Society, Chicago Pathological Society, Kentucky State Medical Association, Charleston Medical Society, American College of Physicians, American Association of Pathologists and Bacteriologists, American Association for Cancer Research, American Society of Clinical Pathologists, American Medical Association, Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Kappa Alpha, Alpha Kappa Kappa, and Sigma Xi. He married Helen M. Collin January 25, 1908. His address is Rochester, Minnesota.

Bibliography.—1. Ein Fall von malignem Hypernephrom bei einem Kinde. Berl. klin. Wchnschr., 1905, xlii, Fest.-num. 115.

2. Beiträge zur normalen und pathologischen Histologie des Wurmfortsatzes. Virchow's Arch. f. path. Anat., 1906, clxxxv, 483–517.

3. Relation of anomalous renal blood vessels to hydronephrosis. Jour. Am. Med. Assn., 1909, lii, 1383. (With W. J. Mayo and W. F. Braasch.)

4. The reversion theory and classification of goiter. Am. Jour. Med. Sc., 1909, cxxxvii, 806–817.

5. The pathological relationships of gastric ulcer and gastric carcinoma. Am. Jour. Med. Sc., 1909, cxxxviii, 846–852; also Tr. Assn. Am. Phys., 1909, xxiv, 593–602. (With L. B. Wilson.)

6. Pathology and clinical significance of stomach ulcer. Surg., Gynec., and Obst., 1910, x, 449–462.

7. The pathology of the gallbladder and some associated lesions. Ann. Surg., 1910, li, 651–669. (With B. F. McGrath.)

8. Classification of appendicitis; relation of chronic appendicitis to obliteration of the lumen, carcinoma, and disturbances in the gastro-hepatico, duodeno-pancreatic, physiologic system. Jour. Am. Med. Assn., 1910, lv, 488–491.

9. Relation between appendicitis and disturbance in the gastro-duodeno, hepatico-pancreatic physiologic system. Ann. Surg., 1910, lii, 801–807. (With B. F. McGrath.)

10. Carcinoma of the breast. Old Dominion Jour. Med., 1911, xii, 189–198; also Tr. South. Surg. and Gynec. Assn., 1911, xxiii, 262–270. (With B. C. Willis.)

11. Clinical and pathological significance of obliteration, carcinoma, and diverticulum of the appendix. Surg., Gynec., and Obst., 1911, xii, 211–220. (With B. F. McGrath.)

12. A simple photographic apparatus for immediate record of fresh and fixed macroscopic and microscopic sections. Surg., Gynec., and Obst., 1912, xiv, 77–79.

13. Autolytic excision by a pentagonal compression suture; its physiological, pathological and surgical significance. Surg., Gynec., and Obst., 1912, xiv, 558–564. (With J. W. Draper.)

14. Involvement of regional lymphatic glands in carcinoma of the stomach; from a study of 200 resected specimens. Ann. Surg., 1912, lv, 811–843. (With J. M. Blackford.)

15. Pathological anatomy of goiter. (A macroscopic and microscopic study of fresh material from 2,500 cases.) New York State Jour. Med., 1912, xli, 595–599.

16. Goiter and its relation to its structural and physiological unit. Surg., Gynec., and Obst., 1913, xvi, 406–411.

17. Benign and malignant ovarian cysts; a report of 1,000 specimens. Surg., Gynec., and Obst., 1913, xvii, 41–51. (With W. E. Sistrunk.)

18. The histogenesis of cancer (carcinoma) of the breast and its clinical significance. Surg., Gynec., and Obst., 1913, xvii, 441–459.
19. The histogenesis of carcinoma in ovarian simple cysts and cystadenoma. Collected Papers Mayo Clinic, 1913, v, 380–390.
20. Chronic gastric ulcer and its relation to gastric carcinoma; review of 684 specimens. Arch. Int. Med., 1914, xiii, 208–223. (With A. C. Broders.)
21. Clinical suggestions based upon a study of primary, secondary (carcinoma?), and tertiary (carcinoma) epithelial hyperplasia in the breast. Surg., Gynec., and Obst., 1914, xviii, 284–289; also Tr. South. Surg. and Gynec. Assn., 1914, xxvi, 208–213.
22. The frequency of carcinoma of the appendix, a report of forty cases (0.44 per cent) in 8,039 specimens. Ann. Surg., 1914, lix, 675–689. (With B. F. McGrath.)
23. Precancerous conditions. Jour. Iowa State Med. Soc., 1914–1915, iv, 1–11.
24. Notes on the regularity and similarity of cancer cells. Collected Papers of the Mayo Clinic, 1914, vi, 600–602.
25. New facts and their clinical significance concerning cancer. Surg., Gynec., and Obst., 1915, xxi, 6–8; also Tr. South. Surg. and Gynec. Assn., 1914, xxvii, 542–544.
26. The evolution of cancer. Collected Papers Mayo Clinic. Philadelphia, Saunders, 1915, vii, 903–917.
27. The histogenesis of cancer of the stomach. Am. Jour. Med. Sc., 1915, cxlix, 469–476.
28. Papilloma of the gallbladder; report of eighty-five cases. Ann. Surg., 1915, lxi, 725–729. (With H. C. Irwin.)
29. The biologic position of the cancer cell. Pan-Am. Surg. and Med. Jour., 1915, xx.
30. Facts versus speculation in the professional conception of cancer. Texas State Jour. Med., 1915–1916, xi, 165–170.
31. Benign neoplasms of the stomach. Tr. Chicago Path. Soc., 1915–1916, x, 51. (With O. Nadeau.)
32. Tuberculosis of the breast. A report of ten cases. Ann. Surg., 1916, lxiii, 669–672. (With L. Durante.)
33. The relation between chronic mastitis and carcinoma of the breast. St. Paul Med. Jour., 1916, xviii, 164–167. (With E. H. Mensing.)
34. Melano-epithelioma; a report of seventy cases. Surg., Gynec., and Obst., 1916, xxiii, 28–32. (With A. C. Broders.)
35. A new classification of neoplasms and its clinical value. Am. Jour. Med. Sc., 1916, cli, 799–806.
36. The pathologic reasons for the legitimate error in *x*-ray diagnosis of gastric carcinoma and ulcer. Am. Jour. Roentgenol., 1917, iv 67–75.
37. Studies in clinico-pathologic standardization and efficiency (in mammary conditions). Surg., Gynec., and Obst., 1917, xxv, 666–673. (With A. C. Broders.)
38. The principles of the pathology of the prostate. Penn. Med. Jour., 1917, xxi, 76–78.
39. Relation of laboratories to hospitals. Mod. Hosp., 1918, xi, 381–383.
40. Absolutely necessary microscopic diagnosis. Minn. Med., 1918, i, 178–181.
41. Cancer's place in general biology. Am. Naturalist, 1918, lii, 395–408.
42. The need and value of biopathologic standardization. Surg., Gynec., and Obst., 1918, xxvii, 523–527; also Tr. South. Surg. Assn., 1918, xxx, 23–35.
43. Epithelioma. Surg., Gynec., and Obst., 1918, xxvii, 141–151. (With A. C. Broders.)
44. The rôle of the pathologist in the practice of medicine. Jour. Lab. and Clin. Med., 1918–1919, iv, 687–690. (With A. C. Broders.)
45. The frequency of "strawberry" gallbladders. Ann. Surg., 1919, lxix, 131–134.
46. The frequency of adenomyoma of the uterus. Ann. Surg., 1919, lxix, 135–137. (With R. H. Blackman.)
47. A biological conception of neoplasia; its terminology and clinical significance. Am. Jour. Med. Sc., 1919, clvii, 657–674.
48. Clinical efficiency and terminology in cancer of the breast. Surg., Gynec., and Obst., 1919, xxix, 44–51. (With H. M. Conner.)

49. Ectopic adenomyoma of uterine type (a report of ten cases). Jour. Lab. and Clin. Med., 1919–1920, v, 218–228. (With A. E. Mahle.)
50. Early lesions in the gallbladder. Am. Jour. Med. Sc., 1920, clix, 646–653. (With J. R. Corkery.)
51. A mathematical terminology for neoplasia and its significance. Northwest Med., 1920, xix, 113–118.
52. Chronic gastric ulcer and gastric carcinoma. A study of 507 simple chronic ulcers and 895 carcinomatous ulcers. Am. Jour. Roentgenol., 1920, vii, 591–596.
53. The relation of pathologists to the institutional practice of medicine. Jour. Lab. and Clin. Med., 1921, vi, 331–334.
54. The relation of hepatitis to cholecystitis. Minn. Med., 1921, iv, 377–382. (With A. S. Jackson.)
55. Relation of differentiation and lymphocytic infiltration to postoperative longevity in gastric carcinoma. Jour. Lab. and Clin. Med., 1921, vi, 473–480. (With A. E. Mahle.)
56. A new clinical classification of neoplasms. Jour. Tenn. State Med. Assn., 1921, xiii, 385–389.
57. Pathology of the peptic ulcer. Jour. Mich. State Med. Soc., 1921, xx, 5.
58. Life expectancy following radical amputation for carcinoma of breast. Ann. Surg., 1922, lxxv, 61–69. (With W. E. Sistrunk.)
59. Factors which influence longevity in cancer. A study of 293 cases. Ann. Surg., 1922, lxxvi, 9–12.
60. Possible defensive factors in cancer of the rectum (a study of 102 cases). Jour. Lab. and Clin. Med., 1922, vii, 602–606. (With J. K. W. Kehrer.)
61. An outline of the history of pathology. Ann. Clin. Med., 1922, i, 38–43.
62. Efficiency in the diagnosis of neoplasms. Surg., Gynec., and Obst., 1922, xxxv, 209–215.
63. Metaplasia in ovarian dermoids and cystadenomas. Report of three cases. Ann. Surg., 1922, lxxvi, 238–245. (With H. D. Caylor.)
64. The relation of fibrosis and hyalinization to longevity in cancer (a study of 194 cases). Jour. Lab. and Clin. Med., 1922, viii, 42–43.
65. Does cancer arise in chronic gastric ulcer? Jour. Am. Med. Assn., 1922, lxxix, 1928–1929.
66. The clinical value of the pathologist. Ann. Clin. Med., 1923, i, 270–272.
67. The cytologic diagnosis of neoplasms. Jour. Am. Med. Assn., 1923, lxxxi, 519–522.
68. Malignant neoplasia of the kidney occurring in infancy. Surg., Gynec., and Obst., 1923, xxxvi, 781–786. (With J. A. H. Magoun, Jr.)
69. Prognostic factors in cancer. Ann. Clin. Med., 1924, ii, 244–247.
70. The pathologist of the twentieth century. Jour. Lab. and Clin. Med., 1924, ix, 365–369.
71. The making of a doctor. Ann. Clin. Med., 1924, ii, 392–408.
72. Excised duodenal ulcers. A report of 425 specimens. Jour. Am. Med. Assn., 1924, lxxxiii, 1894–1898.
73. The pathologist of 1940. Jour. Lab. and Clin. Med., 1924, ix, 733–738.
74. Roentgenologic diagnosis of cholecystic disease. Radiology, 1924, ii, 80–89. (With R. D. Carman and J. D. Camp.)
75. The early diagnosis of cancer. Arch. Clin. Cancer Res., 1925, i, 11–20.
76. The study of fresh tissue as an aid to clinical diagnosis, treatment, and prognosis. Surg. Clin. N. Amer., 1925, v, 701–708.
77. The cancer cell and nature's defensive mechanism. Surg., Gynec., and Obst., 1925, xli, 783–793.
78. Recent progress in the Division of Pathology. Tr. Res. and Ex-Res. Phys. Mayo Clinic, 1925, vi, 333–336.

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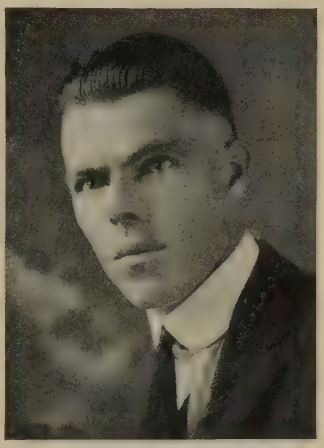

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Bibliography.—1. The preparation of 2 oxo dihydro and 2 oxo hexahydro-indol, 3 propionic acid and some of their halogen derivatives. Studies on thyroid activity. Fifth paper. Jour. Am. Chem. Soc., 1926, xlviii, 1384–1401. (With E. C. Kendall and A. E. Osterberg.)

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Bibliography.—1. Diagnosis of kidney lesions. Jour. Tennessee State Med. Assn., 1920, xiii, 136.
2. Sacral anesthesia in rectal surgery. Am. Proctologic Soc., 1925. (With L. A. Buie.)
3. Sacral anesthesia in operations on the rectum. Atlantic Med. Jour., 1926. (In press.) (With J. S. Lundy.)

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Bibliography.—1. A further report of the pathologic evidence of the relationship of gastric ulcer and gastric carcinoma. Am. Jour. Med. Sc., 1914, cxlviii, 796–810; Tr. Assn. Am. Phys., 1914, xxix, 447–469. (With L. B. Wilson.)
2. Syphilis, as related to traumatic surgery. Internat. Jour. Surg., 1919, xxxii, 296–298.
3. Cancer of the stomach (abstract of thesis). Papers Mayo Foundation and Medical School University of Minnesota, 1915–1920, i, 55–56.

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Bibliography.—1. The diagnosis of early syphilis. Am. Jour. Syph., 1922, vi, 395–409. (With J. H. Stokes.)

2. Palliative control of the gastric crises of the tabetic neurosyphilis by the rectal administration of chloral hydrate and sodium bromid. Jour. Am. Med. Assn., 1922, lxxviii, 786.

3. The globulin content of blood serum in syphilis. Arch. Dermat. and Syph., 1922, v, 215–233. (With M. E. Bircher.)

4. Studies on blood cholesterol in syphilis. Arch. Dermat. and Syph., 1922, vi, 39–49.

5. Involvement of the nervous system in various phases of syphilis. Am. Jour. Syph., 1922, vi, 169–184. (With J. H. Stokes.)

6. The effect on the kidney of treatment for syphilis. Am. Jour. Med. Sc., 1924, clxvii, 477–499.

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Bibliography.—1. Clinical experiences with the Cammidge reaction. Tr. Assn. Am Phys., 1910, xxv, 192–199. (With B. C. Willis, J. T. Pilcher, and D. C. Balfour.)

2. Relation between appendicitis and disturbance in the gastro-duodeno-hepatico-pancreatic physiological systems; a report on the examination of 5,000 appendices with a comparative study of the pathology and clinical histories in 2,000 cases. Ann. Surg., 1910, lii, 801–807. (With W. C. MacCarty.)

3. Clinical and pathological significance of obliteration, carcinoma, and diverticulum of the appendix. Surg., Gynec., and Obst., 1911, xii, 211–212. (With W. C. MacCarty.)

4. Surgical pathology of the prostate; review of 468 cases. Jour. Am. Med. Assn., 1911, lvii, 1601–1606. Also: Surg., Gynec., and Obst., 1911, xiii, 647–681. (With L. B. Wilson.)
5. Intestinal diverticula; their etiology and pathogenesis: with a review of twenty-seven cases. Surg., Gynec., and Obst., 1912, xv, 429–444.
6. Parathyroids and their surgical relation to goiter. Ann. Surg., 1912, lv, 185–194. Also: Tr. South. Surg. and Gynec. Assn., 1912, xxiv, 151–160. (With C. H. Mayo.)
7. A discussion of various anesthetics and methods; experimental observations. Jour. Am. Med. Assn., 1913, lxi, 1516–1521.
8. A simple instrument for transfusion. Jour. Am. Med. Assn., 1914, lxii, 40.
9. A simple apparatus for transfusion by the aspiration-injection method. Surg., Gynec., and Obst., 1914, xviii, 376.
10. The frequency of carcinoma of the appendix, a report of forty cases (0.44 per cent) in 8,039 specimens. Ann. Surg., 1914, lix, 675–689. (With W. C. MacCarty.)
11. Anesthesia in surgical research; a simple, economical, and efficient apparatus for ordinary routine work. Surg., Gynec., and Obst., 1914, xviii, 765.
12. Cancer of the prostate. Jour. Am. Med. Assn., 1914, lxiii, 1012–1018.
13. Vascular suture in transfusion; a simple device to facilitate the work. Jour. Am. Med. Assn., 1914, lxii, 1326.
14. Medical education. Mod. Hosp., 1915, v, 429–432.
15. A simple anesthetic apparatus for laboratory use. Jour. Am. Med. Assn., 1917, lxviii, 1547.
16. Work of the Catholic Hospital Association in 1921. Mod. Hosp., 1922, xviii, 19.
17. Catholic Hospital Association of the United States and Canada. Mod. Hosp., 1923, xx, 30.

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Bibliography.—1. Drainage of the thoracic duct in peritonitis. Surg., Gynec., and Obst., 1925, xl, 626–630; also Tr. Assn. Res. and Ex-Res. Phys. Mayo Clinic, 1924, v, 45–53.

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Bibliography.—1. Fracture of the patella; "mobile" method of treatment. Surg. Clin. N. Amer., 1923, iii, 1603–1606.

2. Compound fractures of bones of the forearm with gas bacillus infection as a complication. Surg. Clin. N. Amer., 1923, iii, 1607–1609.

3. Exophthalmic goiter with acute myxedema complciating postoperative convalescence. Surg. Clin. N. Amer., 1923, iii, 1611–1613.

McKnight, Roy B., B.A., M.D., was born May 5, 1893 in Charlotte, North Carolina; received the degree of B.A. in 1914 from the University of North Carolina, and of M.D. in 1920 from the University of Pennsylvania; was intern at the Methodist Episcopal Hospital, Philadelphia, from 1920 to 1921, and at the Children's Seashore Hospital, Atlantic City, the summers of 1920, 1922, and 1923; practiced in the Kenilworth Hospital and was acting assistant surgeon in the United States Public Health Service, Biltmore, North Carolina, from September, 1921 to February, 1922; was assistant in the Department of Pharmacology, University of Pennsylvania, from February to June, 1922, and the following two years was assistant professor of Pharmacology, University of North Carolina, with limited office practice in Chapel Hill. He entered The Mayo Foundation July 1, 1924 as a fellow in surgery. His services to January 1, 1926 included postoperative treatment, three months; pediatrics, three months; general diagnosis, six months, and operative surgery, six months. He is a member of Olmsted County Medical Society, the Minnesota State Medical Association, the American Medical Association, the J. B. Deaver Surgical Society (Philadelphia), Sigma Chi, and Phi Chi. His address is Rochester, Minnesota.

Roy B. McKnight

McMahon, Francis B., B.S., M.D., M.S. in Surgery, F.A.C.S., was born April 8, 1887 in Manitowoc County, Wisconsin; attended the Milwaukee Normal School from 1904 to 1906; received the degree of B.S. from the University of Wisconsin in 1911, of M.D. from the University of Pennsylvania in 1913, and of M.S. in Surgery from the University of Minnesota in 1917, and was intern at the Germantown Hospital, Philadelphia, from July to December, 1913. He entered the Mayo Clinic as a fellow in surgery February 1, 1914; his services included pathology, eleven months; surgery, thirteen months, and general diagnosis, ten months. He left The Mayo Foundation February 1, 1917, and is practicing general surgery in

Francis B. McMahon

Milwaukee, Wisconsin. He entered the Army in June, 1917, and from January, 1918 to March, 1919 was stationed at Base Hospital 22, as Captain in the Medical Corps, A. E. F. He is a member of the Milwaukee Academy of Medicine, the Milwaukee County Medical Society, the State Medical Society of Wisconsin, the American Medical Association, the American College of Surgeons, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Mrs. Willabella H. Eaton September 23, 1925. His address is 1213 Wells Building, Milwaukee, Wisconsin.

Bibliography.—1. Chronic colitis and its roentgenologic findings. Jour. Lab. and Clin. Med., 1917, ii, 328–341; also Wisconsin Med. Jour., 1917, xv, 419–430. (With R. D. Carman.)
2. The roentgenologic diagnosis of primary carcinoma of the lung. Am. Jour. Med. Sc., 1918, clv, 34–47. (With R. D. Carman.)
3. Gallbladder symptoms recurring after cholecystotomy; a case of trifacial neuralgia. Wisconsin Med. Jour., 1921, xix, 37–39. (With J. P. McMahon.)
4. Gastric papillary carcinoma. Wisconsin Med. Jour., 1923, xxi, 535–538.
5. Luetic obstruction of the esophagus. Surg., Gynec., and Obst., 1923, xxxvii, 141–143.
6. Linitis plastica. Wisconsin Med. Jour., 1923, xxii, 296–300.
7. Surgical diathermy in the treatment of malignant lesions of the buccal cavity and of the skin. Wisconsin Med. Jour., 1925, xxiv, 173–178.

McNeal, Morley D., B.A., M.D., was born January 7, 1892 at Washta, Iowa; received the degree of B.A. from Iowa State University in 1913, and of M.D. from Johns Hopkins University, Baltimore, in 1917; was intern at Johns Hopkins Hospital from April, 1917 to August, 1918, at the Durand Hospital, Chicago, for four months in 1919, and at the Children's Memorial Hospital, Chicago, for the year 1920. During the war he served as Lieutenant, Medical Corps, U. S. A., stationed at Camp Dix, and later was Captain in the Rumanian Commission of the American Red Cross. He entered The Mayo Foundation as a fellow in pediatrics, January 1, 1921, and spent one year on this service. He is now practicing pediatrics at Highland Park, Illinois. He is a member of the Chicago Medical Society, the Illinois State Medical Society, the Chicago Pediatric Society, the American Medical Association, and Pi Mu. He married Julia Allison May 19, 1921. His address is 2 North Sheridan Road, Highland Park, Illinois.

Morley D. McNeal

Bibliography.—1. The serum prophylaxis of measles. Jour. Am. Med. Assn., 1922, lxxviii, 340–341.
2. A report of five cases of so-called acrodynia. Minn. Med., 1922, v, 153–156.
3. The male sexual gland in the prevention of creatinuria. Am. Jour. Med. Sc., 1922, clxiv, 222–227.
4. The presence of formic acid in the urine of infants and older children. Am. Jour. Dis. Child., 1922, xxiii, 419–422. (With C. J. Eldridge.)

McNevin, Charles F., B.S., M.S., M.A., M.D., was born February 19, 1877 in Cresco, Iowa; received the degree of B.S. in 1896, of M.S. in 1899, and of M.A. in 1901 from Upper Iowa University, Fayette, Iowa, and of M.D. in 1908 from Northwestern University, Chicago. He entered the Mayo Clinic June 18, 1908, was intern at St. Mary's Hospital (Mayo Clinic) one year, and surgical assistant fifteen months. He left the Mayo Clinic September 10, 1910. He is now practicing surgery in St. Paul. He is a member of the American Medical Association and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. His address is 714 Lowry Building, St. Paul, Minnesota.

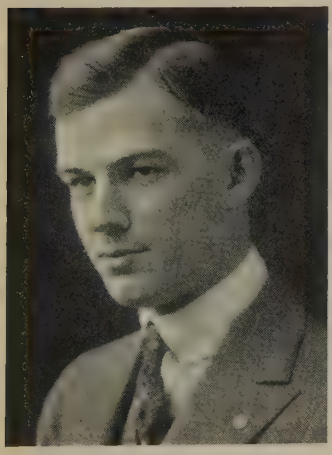
McQuay, Robert W., M.B., M.D.C.M., was born March 9, 1887 in Shakespeare, Ontario; received the degree of M.B. in 1914, and of M.D.C.M. in 1915, from Queen's University, Kingston, Ontario, and practiced at Birtle, Manitoba, one year. During the war he served as First Lieutenant, Royal Army Medical Corps, in France and at Malta. He entered The Mayo Foundation in June, 1917 as a special student in surgery; his services included general diagnosis, twenty-two months; surgery, eight months; urology, three months, and postoperative treatment, three months. He left the Foundation July 4, 1920, and practiced general surgery at Portage la Prairie, Manitoba, until September, 1925. He is now on the staff of the Lockwood Clinic, Toronto, Ontario. He is a member of the College of Physicians and Surgeons of Ontario, the College of Physicians and Surgeons of Manitoba, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Helen McCullough December 25, 1912. His address is Lockwood Clinic, Toronto, Canada.

Robert W. McQuay

McQuiggan, Mark R., B.S., M.D., was born June 24, 1900 in McKeesport, Pennsylvania; received the degree of B.S. in 1919, and of M.D. in 1923, from the University of Pittsburgh; was intern at the Mercy Hospital, Pittsburgh, from 1923 to 1924, and entered The Mayo Foundation July 1, 1924 as a fellow in medicine. His services to January 1, 1926 included dermatology and syphilology, six months; medical hospital service, six months, and neurology, six months. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the Allegheny County Medical Society, the Pennsylvania State Medical Association, the American Medical Association, and Phi Beta Pi. His address is Rochester, Minnesota.

Mark R. McQuiggan

McVay, James R., B.A., M.A., M.D., was born June 5, 1891 in Spickard, Missouri; received the degree of B.A. in 1912, and of M.A. in 1913, from the University of Missouri, and of M.D. in 1915 from Johns Hopkins University, Baltimore, and was surgical intern at Lakeside Hospital, Cleveland, Ohio, from 1915 to 1916. He entered The Mayo Foundation July 1, 1916 as a fellow in surgery; his services included general diagnosis, seven months; neurology, four months; roentgenology, four months; surgical pathology, three months; surgery, nine months; urology, three months, and experimental surgery and pathology, six months. His services were interrupted by the war from February, 1918 to April, 1919. He was commissioned First Lieutenant in the Medical Corps, U. S. A. He left The Mayo Foundation August 20, 1920 to practice surgery at Kansas City, Missouri. He is a member of the Academy of Medicine (Kansas City, Missouri), the Jackson County Medical Society, the Missouri State Medical Association, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Helen Grove April 28, 1918. His address is Chandler Building, Forty-seventh Street and Mill Creek Parkway, Kansas City, Missouri.



James R. McVay

Bibliography.—1. Fibromyoma of the mesentery. Surg., Gynec., and Obst., 1920, xxxi, 372–375. (With E. S. Judd.)
2. The diagnosis of lesions of the esophagus. Jour. Missouri State Med. Assn., 1922, xix, 458–461.
3. Involvement of lymph-nodes in carcinoma of the rectum. Ann. Surg., 1922, lxxvi, 755–767.

McVicar, Charles S., M.B., was born April 5, 1880 in Middlesex County, Ontario, Canada; attended Western University, London, Ontario, from 1903 to 1905, and received the degree of M.B. from Toronto University in 1907; was intern in the Hospital for Sick Children, Toronto, fifteen months, and in Manhattan Maternity Hospital and Dispensary, New York City, three months, and practiced in Toronto from May, 1909 to March, 1915. He served as Major in the Canadian Officers' Training Corps from September, 1914 to March, 1915, Major in the Canadian Army Medical Corps from March, 1915 to May, 1917 and Lieutenant-Colonel from May, 1917 to December 31, 1920. He was medical consultant in Military District 2 from September, 1918 to January, 1919, and commanding officer in the Canadian Military Orthopedic Hospital, Toronto, from January, 1919 to December 31, 1920. He entered the Mayo Clinic January 3, 1921 as first assistant in one of the sections in the Division of Medicine, and was appointed associate January 1, 1922. He is an instructor in medicine in the Mayo Foundation, Graduate School, University of Minnesota. He is a member of the Toronto Academy of Medicine, the Olmsted County Medical Society, the Minnesota State Medical Association, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Nu Sigma Nu. He married Mary Gillies May 21, 1912. His address is Rochester, Minnesota.

Charles S. McVicar

Bibliography.—1. Our experience in broncho-pneumonia. Dominion Med. Month., 1908, xxxi, 441–444.
2. Laboratory tests in the diagnosis of general paresis. Can. Med. Assn. Jour., 1912, ii, 563–567. (With G. Bates and G. S. Strathy.)
3. Some psychiatric problems from the general practitioner's standpoint. Can. Med. Assn. Jour., 1913, iii, 947–952.
4. The treatment of tabes dorsalis and general paresis with salvarsan. Can. Med. Assn. Jour., 1914, iv, 197–200. (With G. Bates and G. S. Strathy.)
5. A diagnostic sign in trench fever. Quart. Jour. Med., 1918–1919, xii, 1–13.
6. The physiologic effects of gastro-enterostomy. Ann. Clin. Med., 1923, i, 332–333.
7. Diagnosis in the chronic dyspepsias. Can. Pract. and Rev., 1923, xlviii, 137.

8. The sodium and potassium content of blood serum in various diseases and of the cerebrospinal fluid in proved and suspected syphilis. Jour. Lab. and Clin. Med., 1923, ix, 87–91. (With Helen Ross.)
9. The internist's responsibility: certain factors involved in the selection and classification of surgical risks. Can. Med. Assn. Jour., 1924, xiv, 225–230.
10. Sick headache: the relation of migraine to gastro-intestinal diagnosis and treatment. Jour. Iowa State Med. Soc., 1924, xiv, 244–249.
11. A discussion of the clinical and laboratory findings in certain cases of obstruction in the upper gastro-intestinal tract. The rôle of blood chemistry in diagnosis, prognosis, and treatment of this condition. Am. Jour. Med. Sc., 1925, clxix, 224–235.
12. Problems in the diagnosis and treatment of gastro-intestinal disorders. Med. Clin. N. Amer., 1925, viii, 1055–1064.
13. The treatment of toxemia associated with gastric stasis, obstructive and nonobstructive. Minn. Med., 1925, viii, 429–433.
14. Diseases of the liver. III. A comparative study of certain tests for hepatic function in patients with obstructive jaundice. Arch. Int. Med., 1925, xxxvi, 418–436. (With C. H. Greene, L. G. Rowntree, and W. Walters.)
15. Problems associated with the gastro-intestinal tract. Med. Clin. N. Amer., 1925, viii, 1055–1064.
16. Diseases of the liver. IV. Functional tests in cases of carcinoma of the liver and biliary tract. Arch. Int. Med., 1925, xxxvi, 542–560. (With C. H. Greene, L. G. Rowntree, and W. Walters.)
17. Lesions of the stomach and duodenum. Tr. Inter-State Post Graduate Med. Assembly of N. Amer., 1925, 222–224.

McWilliams, Burr M., D.D.S., was born March 19, 1897 in Oregon, Wisconsin, and received the degree of D.D.S. from Chicago College of Dental Surgery in 1921. He entered The Mayo Foundation July 18, 1921 as a special student in dental surgery, and completed two years on this service. He was first assistant in the Section on Dental Surgery, Mayo Clinic, from June 1, 1923 to May 1, 1926, when he left the Clinic to enter practice in Milwaukee. He is a member of the Southeastern Minnesota Dental Association, the Olmsted County Dental Association, the Minnesota State Dental Association, the American Dental Association, and Delta Sigma Delta, and an associate member of the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Marie H. Vaas April 15, 1920. His address is First Wisconsin National Bank Building, Milwaukee, Wisconsin.

Burr M. McWilliams

Madsen, Leo J., B.S., M.B., M.D., was born June 10, 1897 in Rochester, Minnesota; received the degree of B.S. in 1919, of M.B. in 1923, and of M.D. in 1924, from the University of Minnesota, and was intern at the Minneapolis General Hospital from December, 1922 to July 1, 1924, when he entered The Mayo Foundation as a fellow in surgery. His services included proctology, three months; general diagnosis, six months; urology, six months, and operative surgery, three months. He left The Mayo Foundation January 1, 1926, and is practicing urology and proctology in Santa Monica, California. He is a member of the Los Angeles County Medical Society, the California Medical Association, the American Medical Association, Phi Delta Chi, Alpha Kappa Kappa, and Alpha Omega Alpha. He married Carmen O. Schwerer October 14, 1918. His address is 320 Junipher Building, Santa Monica, California.

Leo J. Madsen

Magath, Thomas B., Ph.B., M.Sc., Ph.D., M.D., was born January 28, 1895 in Oxford, Georgia; received the degree of Ph.B. from Emery University, Oxford, Georgia, in 1913, of M.Sc. from James Millikin University, Decatur, Illinois, in 1914, of Ph.D. from the University of Illinois in 1917, and of M.D. from the same university in 1919; was teaching fellow in biology, James Millikin University, from 1913 to 1914; instructor in biology in the summer school, Illinois State Normal School, in 1914; graduate assistant in zoölogy, University of Illinois, from 1914 to 1916; fellow in zoölogy, University of Illinois, from 1916 to 1917; instructor in anatomy, University of Illinois, College of Medicine, from 1917 to 1919, and scientific investigator, U. S. Bureau of Fisheries, during the summers of 1916 and 1917; was assistant in the Post Surgeon's office from February to December, 1918, and acting first medical sergeant in the Students' Army Training Corps of the University of Illinois. He is now Captain in the Medical Officers' Reserve Corps. He came to the Mayo Clinic as first assistant in the

Thomas B. Magath

Section on Clinical Pathology October 15, 1919, and was appointed associate January 1, 1921. He is associate professor of clinical bacteriology and parasitology, The Mayo Foundation, Graduate School, University of Minnesota. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the Southern Minnesota Medical Association, the American Medical Association, the American Association for the Advancement of Science, the American Microscopical Society, the American Society of Parasitologists, the American Society of Zoölogists, the American Association of Anatomists, the American Society of Clinical Pathologists, the Society of Experimental Biology and Medicine, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Nu Sigma Nu, and Sigma Xi, and a diplomate of the National Board of Medical Examiners. He married Emily M. Bowman March 14, 1920. His address is Rochester, Minnesota.

Bibliography.—1. The presence of acidophilous cells in the adrenals of certain amphibians. Tr. Am. Micros. Soc., 1915, xxxiv, 155–158.

2. Nematode technique. Tr. Am. Micros. Soc., 1916, xxxv, 245–256.

3. Notes on some nematodes from fresh-water fishes. Jour. Parasitol., 1916–1917, iii, 57–64. (With H. B. Ward.)

4. Are zoölogists going to use the BNA? Science, 1918, xlvii, 192.

5. The morphology and life history of a new trematode parasite, *Lissorchis fairporti*, nov. gen. et nov. spec. from the Buffalo fish, Ictiobus. Jour. Parasitol., 1917, iv, 58–69.

6. The catalase content of *Ascaris suum*, with a suggestion as to its rôle in protecting parasites against the digestive enzymes of their hosts. Jour. Biol. Chem., 1918, xxxiii, 395–400.

7. A variation in the distribution of the nervus abducens in men. Arch. Ophth., 1919, xlviii, 67–71.

8. The eggs of *Diphyllobothrium latum*. Jour. Am. Med. Assn., 1919, lxxiii, 85–87.

9. *Camallanus americanus* nov. sp. Tr. Am. Micros. Soc., 1919, xxxviii, 49–170.

10. *Leucochloridium problematicum* n. sp. Jour. Parasitol., 1920, vi, 105–114.

11. Notes on the nematode genus Camallanus. Am. Naturalist, 1920, liv, 448–453.

12. *Dermatobia hominis*. Arch. Dermat. and Syphil., 1920, ii, 716–721.

13. Echinococcus disease: etiology and laboratory aids to diagnosis. Med. Clin. N. Amer., 1921, v, 549–571.

14. The significance of slight albuminuria. Med. Ins. and Health Conservation, 1921, xxx, 209–217. (With A. H. Sanford, H. M. Conner, and F. J. Heck.)

15. A test for early renal insufficiency. Preliminary paper. Jour. Lab. and Clin. Med., 1921, vi, 463–468.

16. Study II. The liver as a regulator of the glucose concentration of the blood. Am. Jour. Physiol., 1921, lv, 285. (With F. C. Mann.)

17. Study III. The nitrogen constituents of the blood following removal of the liver. Am. Jour. Physiol., 1921, lv, 286. (With F. C. Mann.)

18. The effect of total removal of the liver. Tr. Sect. Path. and Physiol., Am. Med. Assn., 1921, 29–42. (With F. C. Mann.)

19. A further study of the effect of total removal of the liver. Am. Jour. Physiol., 1922, lix, 484. (With F. C. Mann.)

20. The production of chronic liver insufficiency. Am. Jour. Physiol., 1922, lix, 485. (With F. C. Mann.)

21. Comparison of methods of ablation of the liver. Am. Jour. Physiol., 1922, lix, 486. (With F. C. Mann.)
22. The effect of total removal of the liver in lower vertebrates. Am. Jour. Physiol., 1922, lix, 486–487.
23. Studies on the physiology of the liver. II. The effect of removal of the liver on the blood sugar level. Arch. Int. Med., 1922, xxx, 73–84. (With F. C. Mann.)
24. III. The effect of administration of glucose in the condition following total extirpation of the liver. Arch. Int. Med., 1922, xxx, 171–181. (With F. C. Mann.)
25. Etiology and laboratory diagnosis of actinomycosis. Minn. Med., 1922, v, 71–80. (With A. H. Sanford.)
26. The hospital laboratory. Collected Papers Mayo Clinic, 1922, xiv, 1232–1239.
27. Trypanosomiasis. Report of a case. Med. Clin. N. Amer., 1923, vii, 249–255.
28. Administration of lactic acid following removal of the liver. Am. Jour. Physiol., 1923, lxiii, 424. (With F. C. Mann.)
29. Studies on the physiology of the liver. IV. The effect of total removal of the liver after pancreatectomy on the blood sugar level. Arch. Int. Med., 1923, xxxi, 797–806. (With F. C. Mann.)
30. Studies on the physiology of the liver. VI. The effect of total removal of the liver in lower vertebrates. Jour. Morphol., 1925, xli, 183–189. (With F. C. Mann.)
31. Studies on the physiology of the liver. VII. The effect of insulin on the blood sugar following total and partial removal of the liver. Am. Jour. Physiol., 1923, lxv, 403–417. (With F. C. Mann.)
32. Studies on the physiology of the liver. VIII. Effect of total removal of the liver on the formation of urea. Am. Jour. Physiol., 1924, lxix, 371–392. (With F. C. Mann and J. L. Bollman.)
33. Studies on the physiology of the liver. IX. The formation of bile pigment after total removal of the liver. Am. Jour. Physiol., 1924, lxix, 393–409. (With F. C. Mann and J. L. Bollman.)
34. *Ophicternia testudo*, a new species from *Amyda spinifera*. Jour. Parasitol., 1924, xi, 44–49.
35. Die Wirkungen der totalen Leberexstirpation. Ergebn. d. Physiol., 1924, xxiii, 212–273. (With F. C. Mann.)
36. Septicemia due to the Bacillus of Morgan No. 1. Med. Clin. N. Amer., 1925, viii, 1381–1387. (With Edna Jackson.)
37. Studies on the physiology of the liver. X. Uric acid following total removal of the liver. Am. Jour. Physiol., 1925, lxxii, 629–646. (With F. C. Mann and J. L. Bollman.)
38. Studies on the physiology of the liver. XII. Muscle glycogen, following total removal of the liver. Am. Jour. Physiol., 1925, lxxiv, 238–248. (With F. C. Mann and J. L. Bollman.)
39. The etiology of incrusted cystitis with alkaline urine. Jour. Am. Med. Assn., 1925, lxxxv, 1352–1355. (With B. H. Hager.)

Magoun, James A. H., Jr., B.A., M.D., M.S. in Surgery, was born September 27, 1888 in Medford, Massachusetts; received the degree of B.A. from Princeton University, New Jersey, in 1912; of M.D. from the University of Pennsylvania, Philadelphia, in 1916, and of M.S. in Surgery from the University of Minnesota, Minneapolis, in 1922; was intern in Lankenau Hospital, Philadelphia, twenty-eight months, from 1917 to 1919, and in the Pennsylvania Hospital, Philadelphia, two months. He was Lieutenant, junior grade, in the Medical Reserve Corps of the United States Navy, assigned to Lankenau Hospital from July, 1918 to April, 1919. He entered The Mayo Foundation as a fellow in surgery, April 1, 1919, and his services included general diagnosis, twelve months; surgical pathology, six months; operative surgery, fifteen months; experimental surgery and pathology, three months, and urology, experimental surgery, and pathology, four months. He left The Mayo Foundation August 1, 1922 to practice surgery in Toledo, Ohio. He is a member of the William Pepper Medical Society (Pennsylvania), the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Sigma Xi. His address is Toledo Medical Building, Toledo, Ohio.

James A. H. Magoun, Jr.

Bibliography.—1. Experimental studies in colonic dilatation. Surg., Gynec., and Obst., 1917, xxiv, 484–486. (With J. Alexander and J. H. Arnett.)

2. The cholesterol content of the blood in gall-stone disease. Surg., Gynec., and Obst., 1918, xxvi, 282–284. (With Stanley P. Reimann.)

3. The effect of dichloramine-T chlorinated eucalyptol solution on the peritoneum. Surg., Gynec., and Obst., 1918, xxvi, 616–618. (With S. P. Reimann.)

4. Retroperitoneal tumors: Report of two fibromyomas. Med. Clinic N. Amer., 1919, iii, 689–703.

5. Pelvis of kidney as possible source for infection of blood stream. Preliminary Report. Jour. Am. Med. Assn., 1920, lxxiv, 73–75.

6. The passage of bacteria from the urinary bladder into the blood stream. Jour. Urol., 1920, iv, 379–382.

7. Malignant neoplasia in the gallbladder. Ann. Surg., 1921, lxxiv, 700–720. (With K. Renshaw.)

8. Dilatation of the colon simulating Hirschsprung's disease. Surg., Gynec., and Obst., 1922, xxxiv, 198–200.

9. Postoperative intra-abdominal hernia. Arch. Surg., 1922, iv, 324–333. (With C. H. Mayo.)

10. Method of dividing the urinary bladder for experimental purposes. Jour. Lab. and Clin. Med., 1922, viii, 136–138.

11. Renal function following nephrotomy. Surg., Gynec., and Obst., 1923, xxxvi, 675–685.

12. Absorption from urinary tract. Jour. Urol., 1923, x, 67–80.
13. Nephrotomy. Ohio State Med. Jour., 1923, xix, 730–732.
14. Malignant neoplasia of the kidney occurring in infancy. Surg., Gynec., and Obst., 1923, xxxvi, 781–786. (With W. C. MacCarty.)
15. Absorption from the urinary bladder. Am. Jour. Med. Sc., 1923, clxvi, 96–106. (With F. C. Mann.)
16. Review of 5,488 appendectomies performed at the Lankenau Hospital of Philadelphia, Ann. Surg., 1924, lxxix, 854–861. (With J. B. Deaver.)

Mahle, Arthur E., B.S., M.D., M.S. in Pathology, was born October 25, 1893 in Summerfield, Illinois; received the degree of B.S. from the University of Minnesota in 1916, of M.D. from Washington University, St. Louis, in 1918, and of M.S. in Pathology from the University of Minnesota in 1922; was intern at the Barnes Hospital, St. Louis, four months in 1917, and at the Augustana Hospital, Chicago, six months. He entered The Mayo Foundation August 1, 1918 as a fellow in pathology; his services to January 1, 1926 included surgical pathology, forty-one months; pathologic anatomy, six months; general medicine and surgical diagnosis, two years; neurology, six months, and roentgenology, one year. He was appointed first assistant in the Section on Pathology, Mayo Clinic, January 1, 1919, and was first assistant in a section in the Division of Medicine from August 1, 1922 to July 1, 1924. He left the Clinic July 1, 1926 to practice in Chicago. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Beta Theta Pi, and Nu Sigma Nu. He married Theodora C. Parker in 1917. His address is 30 North Michigan Avenue, Chicago, Illinois.

Arthur E. Mahle

Bibliography.—1. Ectopic adenomyoma of uterine type (a report of 10 cases). Jour. Lab. and Clin. Med., 1920, v, 218–228. (With W. C. McCarty.)
2. Adenomyoma of the fallopian tube. Surg., Gynec., and Obst., 1921, xxxiii, 57–61.
3. Relation of differentiation and lymphocytic infiltration to postoperative longevity in gastric carcinoma. Jour. Lab. and Clin. Med., 1921, vi, 473–480. (With W. C. McCarty.)
4. Primary lymphosarcoma of the stomach. A report of twelve cases. Jour. Lab. and Clin. Med., 1921, vi, 249–252. (With A. C. Broders.)
5. The morphological histology of adenocarcinoma of the body of the uterus in relation to longevity. A study of 186 cases. Surg., Gynec., and Obst., 1923, xxxvi, 385–395.
6. Gangrenous type of postoperative pneumonia. Southwest Med., 1924, viii, 536–552. (With W. S. Lemon.)

7. Ectopic adenomyoma: postoperative invasions of the abdominal wall. Arch. Surg., 1925, x, 150–162. (With W. S. Lemon.)
8. The differential diagnosis in cases of ectopic adenomyoma in the groin. Med. Clin. N. Amer., 1925, viii, 1125–1135. (With W. S. Lemon.)

Mahon, George D., M.D., M.S. in Surgery, F.A.C.S., was born October 14, 1891 in Marshall, Texas; attended Peacock Military College, San Antonio, Texas, from 1907 to 1909; received the degree of M.D. from Vanderbilt University, Nashville, Tennessee, in 1913, and of M.S. in Surgery from the University of Minnesota in 1921; practiced medicine at Blocker, Texas, for twenty months from 1913 to 1914; was intern at St. Mary's Hospital, Milwaukee, Wisconsin, from 1914 to 1916, and practiced at Marshall, Texas, eighteen months, from 1916 to 1917. He entered The Mayo Foundation September 20, 1917 as a special student in surgery, and became a fellow in surgery in November, 1919; his services included postoperative care, four and one-half months; general diagnosis, four months; surgery, twenty-eight months; orthopedic surgery, six months; pathologic anatomy, three months; roentgenology, six months, and surgical pathology, three months. He left The Mayo Foundation November 20, 1921 to practice surgery in Dallas, Texas, and is also assistant professor of surgery at Baylor University, Dallas. He is a member of the Dallas County Medical Society, the State Medical Association of Texas, the American College of Surgeons, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Phi Beta Pi. He married Edna Shane in December, 1910. His address is the Medical Arts Building, Dallas, Texas.

George D. Mahon

Bibliography.—1. Elephantiasis: a clinical review and an attempt at experimental reproduction. Am. Jour. Med. Sc., 1923, clxv, 875–880.
2. Diagnosis and treatment of exophthalmic goiter. Texas State Jour. Med., 1924, xx, 42–44.
3. A review of a group of surgical goiters. Texas State Jour. Med., 1925, xx, 648–650.

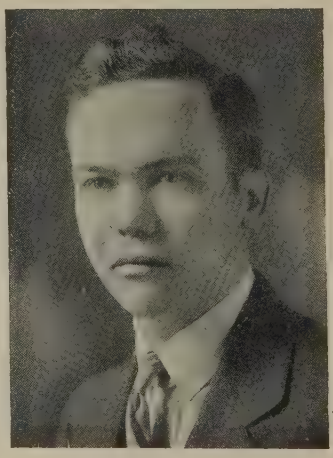
Mailer, Robert, M.B., Ch.B., M.D., F.R.C.S., was born August 22, 1895 in Stirling, Scotland; received from the University of Edinburgh the degrees of M.B. and Ch.B. (first-class honors) in 1917, of F.R.C.S. in 1921, and of M.D. (with gold medal for thesis) in 1923; was intern at the Military Hospital, Oswestry, Shropshire, in 1919, and at the Royal Infirmary, Edinburgh, in 1920, and was assistant professor in pathology and bacteriology at the University of Edinburgh from 1920 to 1923. From 1917 to 1919 he served in the war as Captain in the Royal Army Medical Corps, East African Expeditionary Force. He entered The Mayo Foundation April 1, 1923 as a fellow in surgery, and was on leave of absence in Scotland from December, 1924 to March, 1925. His services to January 1, 1926 included general diagnosis, one year; pathologic anatomy, six months, and operative surgery, one year. He left the Foundation August 1, 1926. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, and the American Medical Association. His address is Pitt Terrace, Stirling, Scotland.

Robert Mailer

Bibliography.—1. Recent conceptions of stomach physiology and the genesis of gastric pain. Edinburgh Med. Jour., 1922, xxviii, 114–122.

2. The split products of the typhoid bacillus: an experimental study of their toxic and antigenic properties. (Unpublished thesis, 1923.)

Malloy, Joseph F., B.S., M.D., was born April 8, 1897 in Emmett, Nebraska; received the degree of B.S. in 1919, and of M.D. in 1921, from Creighton University, Omaha; was intern at St. Joseph's Memorial Hospital, Omaha, for twenty-two months, and entered The Mayo Foundation July 1, 1922 as a fellow in medicine. His services included general diagnosis, two years; neurology, six months, and pathologic anatomy, six months. He left The Mayo Foundation August 1, 1925, and is now practicing in Mitchell, South Dakota. He is a member of the Davison County Medical Society, the South Dakota State Medical Association, the Nebraska State Medical Association, the American Medical Association, and Phi Chi. His address is 204 Western National Bank Building, Mitchell, South Dakota.



Joseph F. Malloy

Mann, Frank C., B.A., M.D., M.A., was born September 11, 1887 in Adams County, Indiana; received the degree of B.A. in 1911, of M.D. in 1913, and of M.A. in 1914 from Indiana University, and spent six months at the dispensary of the Indiana University Medical School. He was appointed chief of the Division of Experimental Surgery and Pathology, The Mayo Foundation, April 10, 1914, and is professor of experimental surgery and pathology, The Mayo Foundation, Graduate School, University of Minnesota. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the Society for Experimental Biology and Medicine, the American Physiological Society, the American Society for Thoracic Surgery, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Sigma Xi. He married Velma J. Daniels July 21, 1914. His address is Rochester, Minnesota.

Frank C. Mann

Bibliography.—1. The danger and prevention of severe cardiac strain during anesthesia. Jour. Am. Med. Assn., 1913, lx, 1273–1278. (With W. D. Gatch and D. Gann.)

2. The peripheral origin of surgical shock. Johns Hopkins Hosp. Bull., 1914, xxv, 205–212.

3. Shock and hemorrhage; an experimental study. Surg., Gynec., and Obst., 1915, xxi, 430–441.

4. Relation of the adrenals to the pancreas. Arch. Int. Med., 1915, xvi, 681–692. (With Della Drips.)

5. A study of the gastric ulcers following removal of the adrenals. Jour. Exper. Med., 1916, xxiii, 203–209.

6. Some bodily changes during anesthesia; an experimental study. Jour. Am. Med. Assn., 1916, lxvii, 172–175.

7. The ductless glands and hibernation. Am. Jour. Physiol., 1916, xli, 173–188.

8. Effects of retention in the kidney of media employed in pyelography. Am. Jour. Med. Sc., 1916, clii, 336–347. (With W. F. Braasch.)

9. A further study of the gastric ulcers following adrenalectomy. Jour. Exper. Med., 1916, xxiv, 329–332.

10. The peripheral origin of surgical shock. American Year Book of Anesthesia and Analgesia, New York Surgical Publishing Co., 1916, 34–68.

11. The effect on the jejunal mucosa of exposure to the gastric juice. Jour. Med. Res., 1917, xxxv, 289–294.

12. The effect of removal of the gall-bladder. Surg., Gynec., and Obst., 1917, xxiv, 437–442. (With E. S. Judd.)

13. The spleen during hibernation. Jour. Exper. Zool., 1917, xxiii, 277–286. (With Della Drips.)

14. Pulmonary embolism. Jour. Exper. Med., 1917, xxvi, 387–393.

15. Shock during general anesthesia. Jour. Am. Med. Assn., 1917, lxix, 371–374.
16. The action of adrenalin in inhibiting the flow of pancreatic secretion. Jour. Pharmacol. and Exper. Therap., 1917, x, 251–259. (With L. C. McLachlin.)
17. Pathologic conditions noted in laboratory animals. Am. Vet. Med. Assn., 1917, lii, 195–204. (With S. D. Brimhall.)
18. Vascular reflexes with various tensions of ether vapor. Am. Jour. Surg. (Anesthesia Supplement), 1917, xxxi, 107–113.
19. The effect of trauma upon the laryngeal nerves. (With E. S. Judd and G. B. New.) Ann. Surg., 1918, lxvii, 257–262.
20. Studies on experimental surgical shock. Studies I to IV. Am. Jour. Physiol., 1918, xlvii, 231–250.
21. Further experimental study of surgical shock. Jour. Am. Med. Assn., 1918, lxxi, 1184–1188.
22. Neutral solution of chlorinated soda (Dakin's solution) in the normal peritoneal cavity. An experimental study. (With W. C. Crumley.) Jour. Am. Med. Assn., 1918, lxx, 840–842.
23. The function of the gallbladder. An experimental study. New Orleans Med. and Surg. Jour., 1918, lxxi, 80–92.
24. The secretory pressure of the liver with special reference to the presence or absence of a gallbladder. (With J. P. Foster.) Am. Jour. Physiol., 1918, xlvii, 278–282.
25. A method for preserving a sharp scalpel in experimental surgery. Jour. Lab. and Clin. Med., 1919, iv, 578.
26. The effect of splenectomy upon the thymus. Endocrinology, 1919, iii, 289–306.
27. The use of turkish wash cloths for packs in experimental surgery. Jour. Lab. and Clin. Med., 1919, iv, 639.
28. A study of the tonicity of the sphincter at the duodenal end of the common bile duct. Jour. Lab. and Clin. Med., 1919, v, 107–110.
29. Attempts to obtain a transplantable tumor in the higher species of animals. Jour. Cancer Res., 1919, iv, 331–347.
30. Experimental surgical shock. V. The treatment of the condition of low blood pressure which follows exposure of the abdominal viscera. Am. Jour. Physiol., 1919, l, 86–101.
31. An experimental study of the effects of duodenectomy. A preliminary report. (With K. Kawamura.) Jour. Am. Med. Assn., 1919, lxxiii, 878–880.
32. Anesthesia in experimental surgery. Am. Jour. Surg. (Anesthesia Supplement), 1920, xxxiv, 73–76.
33. Experimental surgical shock. Am. Jour. Surg., (Anesthesia Supplement), 1920, xxxiv, 11–16.
34. The relation of the common bile duct to the pancreatic duct in common domestic and laboratory animals. (With J. P. Foster and S. D. Brimhall.) Jour. Lab. and Clin. Med., 1920, v, 203–206.
35. A comparative study of the anatomy of the sphincter at the duodenal end of the common bile duct, with special reference to species of animals without a gallbladder. Anat. Rec., 1920, xviii, 355–360.
36. Accessory pancreas in the dog. Anat. Rec., 1920, xix, 263–268.
37. The extrahepatic biliary tract in common domestic and laboratory animals. Anat. Rec., 1920, xviii, 47–66. (With S. D. Brimhall and J. P. Foster.)
38. Studies on the effect of trauma in the thoracic cavity. Med. Rec., 1921, xcix, 627–629. (With C. A. Hedblom.)
39. The adrenal glands. Keen's Surgery, Philadelphia, Saunders, 1921, viii, 51–54.
40. Studies in the physiology of the liver. I. Technic and general effects of removal. II. The liver as a regulator of the glucose concentration of the blood. III. The nitrogen constituents of the blood following removal of the liver. Am. Jour. Physiol., 1921, lv, 285–287. (With T. B. Magath.)

41. A technic for making a biliary fistula. Jour. Lab. and Clin. Med., 1921, vii, 84–86.
42. The effect of total removal of the liver. Tr. Sec. Path. and Physiol., Am. Med. Assn., 1921, 29–42. (With T. B. Magath.)
43. The transplantation of fat in the peritoneal cavity. Surg. Clin. N. Amer., 1921, i, 1465–1471.
44. Studies in the physiology of the liver. I. Technic and general effects of rmeoval. Am. Jour. Med. Sc., 1921, clxi, 37–42.
45. The production by chemical means of a specific cholecystitis. Ann. Surg., 1921, lxxiii, 54–57.
46. A case of spontaneous, acute, and sub-acute peptic ulcers and carcinoma of the thyroid in a dog. Jour. Lab. and Clin. Med., 1921, vi, 213–217.
47. A further study of the effect of total removal of the liver. Am. Jour. Physiol., 1922, lix, 484. (With T. B. Magath.)
48. Duodenectomy (an experimental study). Ann. Surg., 1922, lxxv, 208–220. (With K. Kawamura.)
49. The production of chronic liver insufficiency. Am. Jour. Physiol., 1922, lix, 485. (With T. B. Magath.)
50. Postoperative peritoneal adhesions. An experimental study. Surg., Gynec., and Obst., 1922, xxxiv, 674–676. (With C. S. Williamson.)
51. The bile factor in pancreatitis. Proc. Soc. Exper. Biol. and Med., 1922, xix, 353–355. (With A. S. Giordano.) Arch. Surg., 1923, vi, 1–30.
52. Studies on the physiology of the liver. II. The effect of the removal of the liver on the blood sugar level. Arch. Int. Med., 1922, xxx, 73–84. (With T. B. Magath.)
53. Comparison of methods of ablation of the liver. Am. Jour. Physiol., 1922, lix, 486. (With T. B. Magath.)
54. An accessory pancreas in the wall of the gallbladder of a dog. Anat. Rec., 1922, xxiii, 351–353.
55. The spleen as an endocrine organ. Endocrinology, 1922, ii, 663–671; v, 295–301.
56. An easy method of obtaining samples of urine from the male dog. Jour. Lab. and Clin. Med., 1922, vii, 760–761.
57. A study of fibrinogen following removal of the liver. Am. Jour. Physiol., 1922, lix, 487. (With C. S. Williamson and F. J. Heck.)
58. The hepatic factor in chloroform and phosphorus poisoning. Am. Jour. Physiol., 1922, lix, 487. (With C. S. Williamson.)
59. Studies on the physiology of the liver. III. The effect of administration of glucose in the condition following total extirpation of the liver. Arch. Int. Med., 1922, xxx, 171–181. (With T. B. Magath.)
60. The gasometer method of indirect calorimetry for dogs. Am. Jour. Physiol., 1922, lix, 464–465. (With W. M. Boothby.)
61. The experimental production of peptic ulcer. Ann. Surg., 1923, lxxvii, 409–422; also Am. Jour. Physiol., 1923, lxiii, 403. (With C. S. Williamson.)
62. Duodenectomy. Report of experiment four years after operation. Jour. Lab. and Clin. Med., 1923, viii, 523–524. (With K. Kawamura.)
63. The respiratory quotient and basal metabolism following removal of the liver. Am. Jour. Physiol., 1923, lxiii, 397.
64. Relation of experimental research to medicine and surgery. Ann. Clin. Med., 1923, i, 331–332.
65. Studies on the physiology of the liver. IV. The effect of total removal of the liver after pancreatectomy on the blood sugar level. Arch. Int. Med., 1923, xxxi, 797–806. (With T. B. Magath.)
66. Administration of lactic acid following removal of the liver. Am. Jour. Physiol., 1923, lxiii, 424. (With T. B. Magath.)

67. Studies on the physiology of the liver. V. The hepatic factor in chloroform and phosphorus poisoning. Am. Jour. Physiol., 1923, lxv, 267–276. (With C. S. Williamson.)
68. Studies on the physiology of the liver. VI. The effect of total removal of the liver in lower vertebrates. Am. Jour. Physiol., 1922, lix, 486–487; Jour. Morphol., 1925, xli, 183–189. (With T. B. Magath.)
69. Studies on the physiology of the liver. VII. The effect of insulin on the blood sugar following total and partial removal of the liver. Am. Jour. Physiol., 1923, lxv, 403–417. (With T. B. Magath.)
70. Absorption from the urinary bladder. Am. Jour. Med. Sc., 1923, clxvi, 96–106. (With J. A. H. Magoun, Jr.)
71. Studies on the physiology of the liver. VIII. Effect of total removal of the liver on the formation of urea. Am. Jour. Physiol., 1924, lxix, 371–392. (With J. L. Bollman and T. B. Magath.)
72. The functions of the gallbladder. Physiol. Rev., 1924, iv, 251–273.
73. A consideration of some of the functions of the liver. Surg. Clin. N. Amer., 1924, iv, 345–356.
74. A physiologic consideration of the gallbladder. Jour. Am. Med. Assn., 1924, lxxxiii, 829–832.
75. Studies on the physiology of the liver. IX. The formation of bile pigment after total removal of the liver. Am. Jour. Physiol., 1924, lxix, 393–409. (With J. L. Bollman and T. B. Magath.)
76. Die Wirkungen der totalen Leberexstirpation. Ergebn. d. Physiol., 1924, xxiii, 212–273. (With T. B. Magath.)
77. Studies on the physiology of the liver. X. Uric acid following total removal of the liver. Am. Jour. Physiol., 1925, lxxii, 629–646. (With J. L. Bollman and T. B. Magath.)
78. The relation of the gallbladder to the development of jaundice following obstruction of the common bile duct. Jour. Lab. and Clin. Med., 1925, x, 540–543. (With J. L. Bollman.)
79. The effect of specific cholecystitis on the bile-concentrating activity of the gallbladder. Jour. Lab. and Clin. Med., 1925, x, 544–547. (With J. L. Bollman and P. DePage.)
80. Investigations of the relation of anesthesia to hepatic function. Current Res. Anesth. and Anal., 1925, iv, 107–111.
81. The chemical and mechanical factors in experimentally produced peptic ulcer. Surg. Clin. N. Amer., 1925, v, 753–775.
82. Studies on the physiology of the liver. XI. The extrahepatic formation of bilirubin. Am. Jour. Physiol., 1925, lxxiv, 49–60. (With J. L. Bollman and C. Sheard.)
83. Production and healing of peptic ulcer: an experimental study. Minn. Med., 1925, viii, 638–640.
84. The site of the formation of bilirubin. Am. Jour. Physiol., 1925, lxxiv, 497–510. (With J. L. Bollman, C. Sheard, and E. J. Baldes.)
85. Studies on the physiology of the liver. XII. Muscle glycogen following total removal of the liver. Am. Jour. Physiol., 1925, lxxiv, 238–248. (With J. L. Bollman and T. B. Magath.)
86. A plethysmographic study of the changes in the volume of the spleen in the intact animal. Am. Jour. Physiol., 1925, lxxv, 180–200. (With E. H. Hargis.)
87. The liver in relation to carbohydrate metabolism. Tr. Assn. Am. Phys., 1925, xl, 362–369.
88. Modified physiologic processes following total removal of the liver. Jour. Am. Med. Assn., 1925, lxxxv, 1472–1475.
89. The extrahepatic formation of bilirubin. Ergebn. d. Physiol., 1925, xxiv, 379–398.

90. Pressure changes in the biliary tract. Am. Jour. Med. Sc., 1926, clxxi, 202–217. (With J. C. Potter.)
91. Spectrophotometric determinations of bilirubin. Am. Jour. Physiol., 1926, lxxvi, 577–585. (With C. Sheard, E. J. Baldes, and J. L. Bollman.)
92. The formation of bile pigment from hemoglobin. Am. Jour. Physiol., 1926, lxxvi, 306–315. (With C. Sheard, J. L. Bollman, and E. J. Baldes.)

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Arthur E. Mark

Bibliography.—1. A study of the severe secondary anemias. Minn. Med., 1922, v, 536–544.
2. The value of basal metabolic rate in general medical practice. Minn. Med., 1924, vii, 86–89.

Marquis, William J., Ph.G., M.D., was born December 13, 1897 in Stromburg, Nebraska; received the degree of Ph.G. from the University of Nebraska in 1918, and of M.D. from Harvard University Medical School in 1922, and was intern at St. Elizabeth's Hospital, Richmond, Virginia, from 1922 to July 1, 1923, when he entered The Mayo Foundation as a fellow in roentgenology. His services included roentgen therapy, three months; pathologic anatomy, six months, and roentgenology, twenty months. He left The Mayo Foundation December 1, 1925, and is now in practice with Dr. M. L. Graves in Houston, Texas. He is a member of the Harris County Medical Society, the State Medical Association of Texas, the Boylston Medical Society (Harvard), the American Medical Association, Acacia, and Phi Delta Chi. He married Edith Jones November 23, 1925. His address is Post-Dispatch Building, Houston, Texas.

William J. Marquis

Bibliography.—1. Blood count and blood pressure in high voltage therapy. Radiology, 1924, ii, 252–259. (With A. U. Desjardins.)

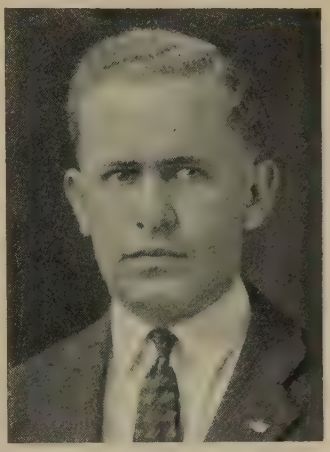
2. Further observations on the roentgen diagnosis of bronchiectasis. Am. Jour. Roentgenol., 1925, xiii, 527–529. (With A. B. Moore.)

3. An experimental study of the markings seen in roentgenograms of the lungs of normal dogs. Am. Jour. Roentgenol., 1925, xiv, 247–250.

4. The roentgenologic diagnosis of gastrojejunal ulcer. Am. Jour. Roentgenol., 1925, xiv, 432–435. (With A. B. Moore.)

5. Celluloid corrosion preparation of lungs. Bull. Internat. Assn. Med. Museums. (In press.)

Marsh, Fred E., M.D., was born July 23, 1898 in Petersburg, Tennessee; received the degree of M.D. in 1922 from Vanderbilt University, Nashville, Tennessee, and was intern at the Toledo Hospital from 1922 to July 1, 1923, when he entered The Mayo Foundation as a fellow in medicine. His services to January 1, 1926 included general diagnosis, eighteen months, and medical hospital service, one year. He was appointed first assistant in one of the sections on medicine October 1, 1925. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the American Medical Association, Phi Beta Pi, and Phi Kappa Sigma. He married Mildred Hollister June 28, 1923. His address is Rochester, Minnesota.



Fred E. Marsh

Marsh, Harold E., M.D., was born October 11, 1892 in Quincy, Massachusetts; received the degree of M.D. from Tufts College, Medford, Massachusetts, in 1913, and was intern in the Malden Hospital, Malden, Massachusetts, from July, 1913 to July, 1914. He entered The Mayo Foundation April 1, 1915 as a special student in medicine; his services included surgery, one year; postoperative treatment, seven months; general diagnosis, twenty-five months, and orthopedic diagnosis, three months. His services were interrupted by the war; from April, 1918 to July, 1919 he served as First Lieutenant in the Medical Corps, 319th Field Hospital, 305th Sanitary Train, 80th Division. He left The Mayo Foundation May 29, 1920, and has since practiced internal medicine in the Jackson Clinic, Madison, Wisconsin. He is a member of the Wisconsin Medical Association, the Mississippi Valley Medical Society, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Iva M. Briggs in 1916. His address is Jackson Clinic, Madison, Wisconsin.

Harold E. Marsh

Bibliography.—1. A report of fifteen cases of erythremia. Med. Clin. N. Amer., 1919, iii, 741–755.
2. The use of antiserum in streptococcus septicemia. Wisconsin Med. Jour., 1922, xx, 443–449. (With C. O. Vingom.)
3. Case of pellagra in Wisconsin. Wisconsin Med. Jour., 1923, xxi, 413–414.
4. Chronic primary intussusception in young children. Ann. Surg., 1924, lxxix, 244–249.
5. Aplastic anemia. Ann. Clin. Med., 1924, iii, 162–164.

Martin, Clement L., B.A., M.D., was born March 9, 1891 in Omaha, Nebraska; received the degree of B.A. in 1911, and of M.D. in 1916, from Creighton University, Omaha, and was intern in King's County Hospital, Brooklyn, New York, fifteen months in 1916 and 1917. He came to The Mayo Foundation January 1, 1918 as a special student in surgery; his services included pathologic anatomy, five months; general diagnosis, eight and one-half months; roentgenology, one and one-half months; orthopedic diagnosis, one-half month; urology, two and one-half months, and operative surgery, six months. He left The Mayo Foundation January 29, 1920, and practiced surgery in Lynch, Nebraska, for three years and in Omaha for three years. March 1, 1926 he came to the Mayo Clinic as an associate in the Section on Proctology. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Mae Greene July 21, 1920. His address is Rochester, Minnesota.

Clement L. Martin

Bibliography.—1. Fallacies of the intraglandular injection treatment of goiter. Nebraska Med. Jour., 1924, ix, 479–480.
2. Roentgen-ray studies of the diaphragm. South. Med. Jour., 1925, xviii, 170–177.

Martin, Loran M., B.S., M.D., was born May 9, 1879 in Tolono, Illinois; received the degree of B.S. from Cornell University, Ithaca, New York, in 1900, and of M.D. from Rush Medical College, University of Chicago, in 1903. He came to the Mayo Clinic January 2, 1903 as surgical assistant, remaining until December 31, 1903. He was connected with St. Luke's Hospital, Chicago, for some time, and is now practicing ophthalmology, otology, laryngology, and rhinology at Fort Dodge, Iowa. He is a member of the Webster County Medical Society, the Iowa State Medical Society, the Tri-State Medical Society, the Sioux Valley Medical Association, and the American Medical Association. His address is P. O. 458, Fort Dodge, Iowa.

Loran M. Martin

Martin, R. Beattie, M.D., was born September 23, 1890 in Exeter, Ontario; received the degree of M.D. from Western University, London, Ontario, in 1915; was intern in the Victoria Hospital, London, Ontario, eight months in 1915; served as Captain in Reserve Army Medical Corps four years during the war, and was intern in the Hamilton General Hospital, Ontario, eight months in 1918. He entered The Mayo Foundation November 15, 1918 as a special student in orthopedic surgery; his services included general diagnosis, fifteen months; orthopedic diagnosis, nine months; orthopedic surgery, eight months, and postoperative care, three months. He left The Mayo Foundation October 1, 1921 to practice surgery at Regina, Saskatchewan. He is a member of the Canadian Medical Association and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. His address is 50 Canada Life Building, Regina, Saskatchewan.

R. Beattie Martin

Martin, Sergeant P., M.D., was born January 14, 1887 in Philadelphia; received the degree of M.D. from the University of Pennsylvania in 1912; was intern at the University of Pennsylvania Hospital, Philadelphia, eleven months, and practiced in Philadelphia from October, 1912 to April, 1913. He entered the Mayo Clinic April 20, 1913 as a fellow in surgery; his services included surgery, ten months; general diagnosis, four months, and urology, eighteen months. He was on leave of absence from October, 1913 to October, 1914. He left The Mayo Foundation January 1, 1917 to practice medicine in Buffalo. He is a member of the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. His address is 494 Franklin Avenue, Buffalo, New York.

Sergeant P. Martin

Bibliography.—1. End-results in 242 cases of simple fracture of the femoral shaft. Surg., Gynec., and Obst., 1915, xxi, 727–740.
2. The history of urology. Urol. and Cutan. Rev., 1918, xxii, 210–214.
3. Dumb-bell stone in diverticulum of urinary bladder. Ann. Surg., 1918, lxvii, 94–95.
4. Disorders of function of the urinary bladder. New York Med. Jour., 1920, cxii, 544–547.
5. Pitfalls in prostatectomy. New York Med. Jour., 1921, cxiii, 663–666.

Maschgar, Albert P., M.D., was born in 1882, and received the degree of M.D. from the University of Minnesota in 1905. He came to the Mayo Clinic July 1, 1905; was assistant pathologist from 1905 to 1906, assistant in the roentgen-ray laboratory and surgical intern from 1906 to 1907. He left the Mayo Clinic July 1, 1907 to practice in St. Paul. He died in Minneapolis July 16, 1912.

Mason, Edward C., B.A., M.D., Ph.D., F.A.C.P., was born October 30, 1891 in Baltimore; received the degree of B.A. from Drury College, Springfield, Missouri, in 1914, of M.D. in 1920, and of Ph.D. in 1921, from the University of Cincinnati, Ohio; held a teaching fellowship in chemistry, Washington University, St. Louis, from 1914 to 1915; was assistant in organic chemistry and biochemistry, St. Louis University, from 1915 to 1917; associate in pharmacology and physiology, University of Chicago, from 1917 to 1919, and assistant professor of pharmacology, University of Cincinnati, from 1919 to 1921. He entered The Mayo Foundation in July, 1921 as a fellow in medicine; his services included general diagnosis, six months, and medical hospital resident, eight months. He was appointed first assistant in one of the sections on medicine July 1, 1922, and remained in the Mayo Clinic until September 1, 1923, when he went to the Henry Ford Hospital, Detroit, and did clinical research work for two years. He is now in private practice in Springfield, Missouri. He is a member of the American Society of Clinical Pathologists, the American College of Physicians, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Phi Chi, and Sigma Xi. He married Edwina Robberson April 20, 1918. His address is 506 Holland Building, Springfield, Missouri.

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Bibliography.—1. A pharmacological study of benzyl benzoate. Jour. Lab. and Clin. Med., 1920–1921, vi, 62–77. (With C. E. Pieck.)
2. A preliminary report on blood coagulation. Jour. Lab. and Clin. Med., 1920–1921, vi, 195–199.
3. The pharmacologic action of lead in organic combination. Jour. Lab. and Clin. Med., 1920–1921, vi, 427–453.
4. A proposed buffered physiologic salt solution to be used in serology. Jour. Lab. and Clin. Med., 1924, ix, 313–316. (With A. H. Sanford.)
5. Note on water excretion as influenced by blood pressure response to sodium nitrite. Jour. Lab. and Clin. Med., 1924, ix, 529–539.
6. Blood coagulation; production and prevention of experimental thrombosis and pulmonary embolus. Surg., Gynec., and Obst., 1924, xxxix, 421–428.
7. Some physicochemical aspects of hemolysis. Jour. Lab. and Clin. Med., 1924, x, 10–18. (With R. Rockwood.)
8. The use of heparin in blood transfusion. Jour. Lab. and Clin. Med., 1924, x, 203–206.
9. A study of tissue autolysis in vivo. I. Blood changes: physical and chemical. Jour. Lab. and Clin. Med., 1925, x, 622–630. (With E. C. Davidson, C. W. Matthew, and P. B. Rastello.)
10. A study of insulin action. Jour. Lab. and Clin. Med., 1925, x, 793–804. (With E. C. Matthew.)

11. A study of tissue autolysis in vivo. II. A pharmacological study of the toxic material. Jour. Lab. and Clin. Med., 1925, x, 906–913. (With E. C. Davidson and P. B. Rastello.)
12. A study of tissue autolysis. III. Observations using the spleen. Jour. Lab. and Clin. Med., 1925, x, 997–999. (With E. C. Davison and C. W. Matthew.)
13. Physicochemical aspects of hemolysis. III. A further study of some of the factors involved. Jour. Lab. and Clin. Med., 1925, x, 917–924. (With R. Rockwood.)

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D. Morrison Masson

Masson, James C., M.B., F.A.C.S., was born August 27, 1881 in Owen Sound, Ontario; received the degree of M.B. from Toronto University in 1906; was intern in the Hospital for Sick Children, Toronto, one year; in Manhattan Maternity Hospital, New York City, three months, and in the Toronto General Hospital, nine months; was resident physician in the Manhattan Maternity Hospital from June 1, 1908 to June 1, 1909, and practiced in Dunnville, Ontario, from 1909 to 1912, when he came to the Mayo Clinic. He was intern at St. Mary's Hospital, Rochester, from October, 1912 to April, 1913, and first assistant in one of the sections in the Division of Surgery from 1913 to 1915, when he was appointed head of a section in the Division of Surgery. He is assistant professor of surgery, The Mayo Foundation, Graduate School, University of Minnesota. From March 30 to December 5, 1918 he served as Major in the Medical Reserve Corps, U. S. A., stationed at Rochester and at Camp Crane. He is a member of the Olmsted County Medical Society, the Southern Minnesota Medical Association, the Minnesota State Medical Association, the Western Surgical Association, the Interurban Surgical Society, the American College of Surgeons, the American Gynecological Association, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Nu Sigma Nu. He married Marion Knowles October 15, 1914. His address is Rochester, Minnesota.

James C. Masson

Bibliography.—1. Description of a self-retaining bladder retractor. Surg., Gynec., and Obst., 1916, xxii, 357.
2. Skin grafting. Jour. Am. Med. Assn., 1918, lxx, 1581–1584.
3. Recurring inguinal hernia. Minn. Med., 1919, ii, 373–382.
4. Exposure in gallbladder surgery. Ann. Surg., 1919, lxix, 423–425.
5. An extra tag on the abdominal sponge. Jour. Am. Med. Assn., 1919, lxxii, 1612–1613.
6. Abdominal hernia. Proc. Tenth Ann. Meeting Am. Life Convention, 1920, 188–203.
7. Retroperitoneal lipomas: Report of twelve cases. Surg. Clin. N .Amer., 1921, i, 1451–1464. (With E. J. Horgan.)
8. Diverticulitis of the large bowel. Can. Med. Assn. Jour., 1921, xi, 106–111.
9. Cancer of the stomach. Can. Med. Assn. Jour., 1921, xi, 924–928.
10. Diverticulitis of the large bowel. Colorado Med., 1921, xviii, 235–238.
11. Sarcoma of the uterus. Am. Jour. Obst. and Gynec., 1923, v, 345–357.
12. Postoperative ventral hernia. Surg., Gynec., and Obst., 1923, xxxvii, 14–19.
13. Uterine prolapse and its treatment. Jour. Iowa State Med. Soc., 1924, xiv, 174–176.
14. A case of true hermaphrodism. Am. Jour. Obst. and Gynec., 1925, ix, 81–86.
15. Sacrococcygeal sinuses and cysts. Surg., Clin. N. Amer., 1925, v, 737–742.

16. The use of zinc chlorid in gynecology. Am. Jour. Obst. and Gynec., 1925, x, 355–364. (With H. O. Foucar.)
17. Parasitic fibromyomas. Surg., Gynec., and Obst., 1926. (In press.)

Mastin, Edward V., M.D., M.S. in Surgery, was born June 13, 1891 in Mobile, Alabama; received the degree of M.D. from the University of Pennsylvania in 1916, and of M.S. in Surgery from the University of Minnesota in 1922; was intern in the Philadelphia Polyclinic Hospital and College for Graduates of Medicine from September, 1916 to September, 1917, when he entered The Mayo Foundation as a fellow in surgery. His services included general diagnosis, thirteen months; dermatology, three months; operative surgery, two years, and surgical pathology, eighteen months. His services at The Mayo Foundation were interrupted by the war. He was commissioned First Lieutenant and later Captain, and served at a base hospital, an evacuation hospital, and with an ambulance company between April, 1918 and July, 1919. He then returned to The Mayo Foundation, remaining until the completion of his services July 1, 1922. He is now practicing surgery in St. Louis, and is an instructor in anatomy in Washington University Medical School. He is a member of the Association of Surgeons of St. Louis, the St. Louis Medical Society, the Association of Military Surgeons, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Eleanor D. Chase December 15, 1923. His address is 1043–46 Missouri Theater Building, St. Louis, Missouri.

Edward V. Mastin

Bibliography.—1. A muscle clamp to be used in thyroidectomies. Surg., Gynec., and Obst., 1922, xxxv, 644–645.
2. The blood supply of the thyroid gland and its surgical significance. Surg., Gynec., and Obst., 1923, xxxvi, 69–74.
3. The diagnosis and treatment of exophthalmic goiter. Jour. Missouri Med. Assn., 1923, xx, 311–316.
4. Consideration of diseases of the thyroid gland. South. Med. Jour., 1924, xvii, 345–351.

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Roger W. Matchett

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Justus Matthews

Bibliography.—1. Observations on the vocal cords in 1,000 cases of goiter. Jour. Am. Med. Assn., 1910, lv, 826–828.

2. The relation of nasal conditions to asthma. Jour. Am. Med. Assn., 1912, lix, 1107–1108.
3. Malignant tumors of the tonsil. Laryngoscope, 1912, xxii, 737–752; Collected Papers Mayo Clinic, 1911, iii, 34–51.
4. Anaphylaxis and asthma. Med. Rec., 1913, lxxxiv, 512–514.
5. The relation of nasal conditions to anaphylaxis and asthma. Tr. Am. Laryngol., Rhinol., and Otol. Soc., 1913, xix, 62–67; also Jour. Am. Med. Assn., 1912, lix, 1107–1108.
6. Surgery of the tonsil. Tr. Montana State Med. Assn., July, 1914.
7. Tonsillectomy. Jour. Am. Med. Assn., 1916, lxvi, 503–504.
8. Technic of tonsillectomy. Journal-Lancet, 1917, xxxvii, 190.

Mattson, William W., M.D., was born December 31, 1885 in Pukwana, South Dakota; received the degree of M.D. from the University of Pennsylvania in 1914; was intern in the Seattle General and King County Hospitals, Seattle, eight months, and did laboratory work in the Seattle General Hospital three months. He entered The Mayo Foundation April 1, 1915 as a fellow in surgery; his services included surgery, nineteen months; general diagnosis, six months, and surgical pathology, six months. He left The Mayo Foundation November 1, 1917 to practice surgery in Tacoma, Washington. During the war he served with the A. E. F. in France. He is a member of the American Medical Association and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. His address is 514 Puget Sound Bank Building, Tacoma, Washington.

William W. Mattson

Bibliography.—1. Human actinomycosis (with special reference to source and mode of infection). Surg., Gynec., and Obst., 1922, xxxiv, 482–494.

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Lillian M. Mayer

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Alfred L. Mayfield

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Charles H. Mayo

Alternating with his brother, Dr. William J. Mayo, he served as Colonel and chief consultant for all surgical services in the United States Army during the World War. He received the Distinguished Service Medal in April, 1920, and was promoted to the rank of Brigadier General, Medical Officers' Reserve Corps, in 1921.

He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association (President 1905), the Minnesota Historical Society, the Southern Minnesota Medical Association, the Western Surgical Association (President 1904–1905), the Southern Surgical Association, the International Congress on Tuberculosis (President of Section on Surgery 1908–1909), the Society of Clinical Surgery (President 1911–1912), the Clinical Congress of Surgeons of North America (President 1914–1915), the American Medical Association (President 1916–1917), the American Surgical Association, the National Institute of Social Sciences, the American College of Surgeons (Regent 1913, President 1923–1925), the Tri-State District Medical Association (President 1924–1925), the American Association for the Advancement of Science, the Association of Military Surgeons, the Royal College of Surgeons (England), the Royal College of Surgeons (Ireland), the Legion of Honor (France), the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Alpha Kappa Kappa, and Sigma Xi.

He is an honorary member of the Association of Surgeons of Great Britain and Ireland, the Serbian Medical Society, La Sociedad Peruana de Cirujia, La Comision Provincial Fermanente de Valencia, La Real Academia Nacional de Medicine (Madrid), the faculty of El Instituto

Medico Balenciano, and the Royal Academy of Medicine (Ireland); is a corresponding member of the Royal Society of Medicine (England), and an officer of L'Instruction Publique et des Beaux-Arts (France), He married Edith Graham, of Rochester, April 5, 1893. His address is Rochester, Minnesota.

Bibliography.—1. Report of Clinic at St. Mary's Hospital, Rochester, Minnesota, January 19, 1891. Northwest. Lancet, 1891, xi, 91–92. (With W. J. Mayo.)
2. Surgical treatment of suppurative diseases of nasal sinuses. Northwest. Lancet, xi, 249.
3. Glandular tuberculosis. Northwest. Lancet, 1890, xi, 261–262.
4. A contribution to cerebral surgery. Report of two cases. Northwest. Lancet, 1891, xi, 59.
5. The surgery of injuries and diseases of the nerves. Northwest. Lancet, 1892, xii, 289–292.
6. Neurotomy of the spinal accessory. Tr. Minn. State Med. Soc., 1892, 161.
7. Skin grafting. Northwest. Lancet, 1893, xiii, 148–151.
8. Complete obstruction of the common duct of the liver. Anastomosis between the gallbladder and jejunum by means of Murphy's button. Northwest. Lancet, 1893, xiii, 236. (With W. J. Mayo.)
9. Report of a case of hydrencephalocele subjected to excision: Recovery. Ann. Surg., 1893, xviii, 26–27.
10. The present status of brain surgery. Tr. Minn. State Med. Soc., July 15, 1893.
11. Brain cyst the result of injury, causing aphasia, hemiplegia, etc., evacuation; complete recovery. New York Med. Jour., 1894, lix, 434.
12. Brain lesions the result of injury without apparent fracture. Northwest. Lancet, 1894, xiv, 129–131.
13. Acute suppuration of the knee-joint; treatment by transverse anterior incision, partial dislocation and dry gauze packing. Ann. Surg., 1895, xxi, 37. (With W. J. Mayo.)
14. Gastro-enterostomy by means of the Murphy button. Ann. Surg., 1895, xxi, 38–44. (With W. J. Mayo.)
15. Cystoid scar of the brain as a cause of epilepsy. Northwest. Lancet, 1895, xv, 394–395.
16. Removal of an intubation-tube from the bronchus by tracheotomy. Recovery. Med. Rec., 1895, xlviii, 641.
17. Clinical report. I. Complete section of the vas deferens; end-to-end union. II. Acute suppuration of knee-joint; open treatment. III. Gastro-enterostomy by the Murphy button; anastomoses by this method. Ann. Surg., 1895, xxi, 35–44. (With W. J. Mayo.)
18. Foreign bodies in the trachea and esophagus. Northwest. Lancet, 1896, xvi, 479–481.
19. Removal of an open buckle impacted in the esophagus (with *x*-ray skiagraph). Northwest. Lancet, 1897, xvii, 92.
20. Surgery of the neck. Northwest. Lancet, 1897, xvii, 325–327.
21. Septic diseases of the knee-joint. Jour. Am. Med. Assn., 1897, xxviii, 542–544.
22. Pneumotomy. Northwest. Lancet, 1898, xviii, 441.
23. Observations on the treatment of tuberculosis of bones and joints. Tr. Minn. State Med. Soc., 1899, 90–91.
24. Aneurysm. St. Paul Med. Jour., 1899, i, 748–751.
25. Varicose veins of the lower extremity. St. Paul Med. Jour., 1900, ii, 595–598.
26. Hydrocele. Northwest. Lancet, 1901, xxi, 143–144.
27. Heat in surgery. St. Paul Med. Jour., 1901, iii, 172–176.

28. Hypospadias. St. Paul Med. Jour., 1901, iii, 99; Jour. Am. Med. Assn., 1901, xxxvi, 1157–1162.
29. Hydrocele. A Collection of Papers Published Previous to 1909, Philadelphia, Saunders, ii, 232–235
30. Rectal prolapse. Tr. Minn. State Med. Soc., 1901, 147–151.
31. Prostatectomy. Med. News, 1902, lxxx, 769–771; St. Paul Med. Jour., 1902, iv, 252–256.
32. Surgery of the prostate. Tr. Minn. State Med. Assn., 1903, 167–173.
33. The surgical physiology of the lymphatic system. Med. News, 1904, lxxxv, 769–772; Tr. South. Surg. and Gynec. Assn., 1903–1904, xvi, 442–452.
34. Evolution in the treatment of cancer of the rectum. Jour. Am. Med. Assn., 1903, xl, 1127–1129.
35. Principles in drainage. The Med. Herald, 1903, n. s., xxii, 433–437.
36. The surgical treatment of goiter. Jour. Am. Med. Assn., 1904, xlii, 1057–1061.
37. The surgical treatment of varicose veins. St. Paul Med. Jour., 1904, vi, 695–699.
38. Thyroidectomy for exophthalmic goiter. Based upon forty operated cases. Med. Rec., 1904, lxvi, 734–736; Tr. Am. Surg. Assn., 1904, xxii, 210–219.
39. Tubercular peritonitis. Dominion Med. Month., 1904, xxiii, 229–234; Denver Med. Times, 1904–1905, xxiv, 399–408.
40. Cancer of the large bowel. Med. Sentinel, Portland, Ore., 1904, xii, 466–473.
41. A review of 1,000 operations for gall-stone disease, with special reference to mortality. Am. Jour. Med. Sc., 1905, cxxix, 375–380; Northwest. Lancet, 1905, xxv, 10. (With W. J. Mayo.)
42. Mortality, disability, and permanency of cure in surgery. Northwest. Lancet, 1905, xxv, 179–182.
43. Goiter: with preliminary report of 182 operations upon the thyroid. Tr. South. Surg. and Gynec. Assn., 1906, xviii, 145–166.
44. The diagnosis of gall-stone disease based upon the clinical histories of 1,000 operated cases. St. Paul Med. Jour., 1905, vii, 79–85. (With W. J. Mayo.)
45. The diagnosis of gall-stone disease. Clin. Rev., 1905, xxii, 81–89. (With W. J. Mayo.)
46. The technic of shortening the round ligaments. Surg., Gynec., and Obst., 1906, ii, 203.
47. Treatment of varicose veins. Surg., Gynec., and Obst., 1906, ii, 385–388.
48. Surgical treatment of goiter. Based upon 200 operations. Jour. Minn. Med. Assn., 1906, xxvi, 159–162; also Med. Herald, 1906, n. s., xxv, 183–191.
49. Cancer of the sigmoid and rectum. Surg., Gynec., and Obst., 1906, iii, 236–241.
50. Surgical opportunity. Northwest. Lancet, 1906, xxvi, 339–341.
51. Surgical treatment of goiter. Based upon 300 personal operations. Tr. South. Surg. and Gynec. Assn., 1906, xix, 32–39.
52. Peripheral versus intracranial operations for tic douloureux. Surg., Gynec., and Obst., 1906, iii, 731–733.
53. Goiter: with preliminary report of 300 operations on the thyroid. Jour. Am. Med. Assn., 1907, xlviii, 273–277.
54. Treatment of the posterior capsule of the gland in thyroidectomy. Based on 375 operations for goiter. Surg., Gynec., and Obst., 1907, v, 26–30; Tr. Am. Surg. Assn., 1907, xxv, 52–59.
55. Goiter: Its surgical treatment based on 475 cases. Illinois Med. Jour., 1907, xii, 327–332.
56. Goiter: Its surgical treatment. Ohio Med. Jour., 1907–1908, iii, 179–182.
57. President's address. Hospital construction. Tuberculosis of the larynx. Ophthalmo-reaction in ophthalmic surgery. Corneal tuberculosis. Tuberculosis of the middle ear. Surgery of tuberculosis of upper respiratory tract. Tuberculosis of nose, mouth, and pharynx. Sixth International Congress on Tuberculosis, 1908, ii, 1–4.

58. Mortality and later results from thyroidectomy in exophthalmic goiter or hyperthyroidism. Tr. Am. Surg. Assn., 1908, xxvi, 597.
59. Goiters of the young. South. Med. Jour., 1908, i, 18–21.
60. Transperitoneal removal of tumors of the bladder. Ann. Surg., 1908, xlviii, 105–114; Tr. South. Surg. and Gynec. Assn., 1908, xx, 51–55.
61. The surgical treatment of bunion. Ann. Surg., 1908, xlviii, 300–302.
62. Goiter: some observations based on the surgical treatment of cases. Alabama Med. Jour., 1908, xx, 443–451.
63. Goiter: observations based upon the surgical treatment of 600 cases. Tr. Am. Assn. of Alabama, 1908, 331–339.
64. A consideration of the mortality in 1,000 operations for goiter. Surg., Gynec., and Obst., 1909, viii, 237–240; Tr. South. Surg. and Gynec. Assn., 1909, xxi, 275–287.
65. The surgical treatment of hyperthyroidism, based upon 200 operations. Jour. Minn. Med. Assn., 1908, xxviii, 223–227.
66. The operative treatment of hyperthyroidism. Surg., Gynec., and Obst., 1909, viii, 602–605.
67. Surgery of the parathyroid bodies. Keen's Surgery, Philadelphia, Saunders, 1909, v, 948–963.
68. The parathyroid question. Ann. Surg., 1909, l, 79–83; Tr. Am. Surg. Assn., 1909, xxvii, 71–79.
69. Ligation of the thyroid vessels in certain cases of hyperthyroidism. Ann. Surg., 1909, l, 1018–1024.
70. Goiter with the surgical treatment of hyperthyroidism. Texas State Jour. Med., 1909, v, 110–112.
71. Accidents and complications in goiter operations. Jour. Minn. Med. Assn., 1909, xxix, 79.
72. Intrathoracic goiter. With report of cases. Tr. West. Surg. and Gynec. Assn., 1909, 303–307.
73. A disclaimer from the Mayo Brothers. Jour. Am. Med. Assn., 1909, lii, 1596. (With W. J. Mayo.)
74. Ligation of right inferior thyroid artery for exophthalmos. Stereo-Clinic, Troy, New York, 1910, Sect. x, 2–8.
75. Partial thyroidectomy for exophthalmos. Stereo-Clinic, Troy, New York, 1910, Sect. x, 2–22.
76. Diagnosis and surgical treatment of esophageal diverticula: report of eight cases. Ann. Surg., 1910, li, 812–817; Tr. Am. Surg. Assn., 1910, xxviii, 196–203.
77. Diagnosis of hyperthyroidism or exophthalmic goiter. Surg., Gynec., and Obst., 1910, xi, 129–132; Tr. South. Surg. and Gynec. Assn., 1910, xxii, 268–276.
78. The prophylaxis of cancer. Jour. Am. Med. Assn., 1910, lv, 1605–1607.
79. A consideration of surgical methods of treating hyperthyroidism. Med. Rec., 1910, lxxviii, 1173–1174.
80. Ligation and partial thyroidectomy for hyperthyroidism. Surg., Gynec., and Obst., 1910, xi, 562–565; Illinois Med. Jour., 1911, xix, 145–149.
81. Extirpation of tumors of vomer through the roof of the mouth. Ann. Surg., 1911, liv, 302–305; Tr. Am. Surg. Assn., 1911, xxix, 411–416.
82. Intestinal obstruction due to kinks and adhesions of the terminal ileum. Surg., Gynec., and Obst., 1911, xii. 227–230.
83. Lingual, sublingual, and other forms of aberrant thyroid. Jour. Am. Med. Assn., 1911, lvii, 784–786.
84. Discussion: The University Hospital. Read before the Minn. State Med. Soc., October, 1911.
85. The present status of the treatment of fractures. Railway Surg. Jour., 1911–1912, xviii, 400–410.
86. Diseases of the thyroid. Jour. Mich. State Med. Soc., 1912, xi, 1.

87. Parathyroids and their surgical relation to goiter. Ann. Surg., 1912, lv, 185–194; also Tr. South. Surg. and Gynec. Assn., 1912, xxiv, 151–160. (With B. F. McGrath.)
88. Failure of the colon to rotate. Med. Rec., 1912, lxxxi, 401–403.
89. Observations on the thyroid gland; its diseases. Surg., Gynec., and Obst., 1912, xiv, 363–368.
90. A collection of papers, published previous to 1909. Philadelphia, Saunders, 1912, i, 498 pp.; ii, 591 pp. (With W. J. Mayo.)
91. Factors of safety in operating for exophthalmic goiter. Jour. Am. Med. Assn., 1912, lix, 26–27.
92. Diverticula of the gastro-intestinal tract; their surgical importance. Jour. Am. Med. Assn., 1912, lix, 260–264.
93. Surgery of the thymus gland. Ann. Surg., 1912, lvi, 77–82; also Tr. Am. Surg. Assn., 1912, xxx, 528–536.
94. Goiter. Illinois Med. Jour., 1913, xxiii, 125–136.
95. Observations on German surgery. Journal-Lancet, 1913, xxxiii, 134–137.
96. Constitutional diseases secondary to local infections. Dental Rev., 1913, xxvii, 281–297; Dental Digest, 1913, xix, 648–660.
97. Anterio-gastro-enterostomy for carcinoma of the pylorus. Stereo-Clinic, Troy, New York, 1913, Sect. xviii, 2–13.
98. Carcinoma of the sigmoid. Stereo-Clinic, Troy, New York, 1913, Sect. xviii, 2–10.
99. The surgery of the single and horse-shoe kidney. Ann. Surg., 1913, lvii, 511–521; also Tr. South. Surg. and Gynec. Assn., 1913, xxv, 301–310.
100. Surgery of the thyroid. Observations on 5,000 operations. Jour. Am. Med. Assn., 1913, lxi, 10–13.
101. Exclusion of the bladder: An operation of necessity and expediency. Ann. Surg., 1913, lviii, 133–144; Tr. Am. Surg. Assn., 1913, xxxi, 446–466.
102. Goiter: The relation of its symptoms and pathology. Northwest Med., 1913, 334–336; Illinois Med. Jour., 1913, xxiii, 125–136.
103. Local foci of infection causing general systemic disturbance. Med. Herald, 1913, n. s., xxxii, 370–373.
104. Factors of safety in intestinal surgery. Old Dominion Jour. Med. and Surg., 1914, xviii, 65–70.
105. Resection of the rectum for cancer, with preservation of the sphincter. Surg., Gynec., and Obst., 1914, xviii, 401–403; Tr. South. Surg. and Gynec. Assn., 1914, xxvi, 393–397.
106. Cholecystitis and the factors that control results of operation. Journal-Lancet, 1914, xxxiv, 175–178; Tr. West. Surg. Assn., 1914, 217–220.
107. Visceral pleurectomy for chronic empyema. Ann. Surg., 1914, lix, 884–890; also Boston Med. and Surg. Jour., 1914, clxxi, 424–426; Tr. Am. Surg. Assn., 1914, xxxii, 659–670. (With E. H. Beckman.)
108. The preparation of dry bony areas for skin grafting. Ann. Surg., 1914, lx, 371.
109. Hyperthyroidism: primary and late results of operation. Surg., Gynec., and Obst., 1914, xix, 351–359; Lancet, 1914, ii, 301–367.
110. The surgical treatment of exophthalmos. Jour. Am. Med. Assn., 1914, lxiii, 1147–1149.
111. The hospital as an educational institution. Mod. Hosp., 1914, iii, 215–218.
112. Mouth infection as a source of systemic disease. Jour. Am. Med. Assn., 1914, lxiii, 2025–2026; Dental Sum., 1915, xxxv, 1–4.
113. A summing up of the goiter question. Surg., Gynec., and Obst., 1914, xviii, 322–325.
114. Causes of failure in gastro-enterostomies. St. Paul Med. Jour., 1915, xvii, 90–99.
115. Uterine prolapse with associated pelvic relaxation. Surg., Gynec., and Obst., 1915, xx, 253–260; Tr. South. Surg. and Gynec. Assn., 1914, xxvii, 187–198.
116. Papillomas of the gallbladder. Ann. Surg., 1915, lxii, 193–197; Tr. Am. Surg. Assn., 1915, xxxiii, 333–343.

117. Goiter and life expectancy. Lancet-Clinic, 1915, cxiii, 649–651. (With H. S. Plummer.)
118. Fibroid of uterus; enucleation. Med. Press. and Circ., 1915, n. s., xcix, 318.
119. Hydrocephalus, spina bifida, and allied diseases. Internat. Clin., 1915, s. 25, iv, 286–292.
120. Repair of small vesicovaginal fistula. Ann. Surg., 1916, lxii, 106–107; Tr. West. Surg. Assn., 1916, 169–173.
121. Errors in anatomical development, their cause and surgical significance. Surg., Gynec., and Obst., 1916, xxii, 11–17.
122. The examination, preparation, and care of surgical patients. Journal-Lancet, 1916, xxxvi, 1–4.
123. Cholecystostomy versus cholecystectomy. Tr. South. Surg. and Gynec. Assn., 1915, xxviii, 276–295.
124. Gallbladder diseases: etiology, symptoms, and treatment. New York Med. Jour., 1916, ciii, 433–436.
125. Infection a cause of local and general disease. Jour. Iowa State Med. Soc., 1916, vi, 164–167.
126. A review of various methods of treating fractures. Railway Surg. Jour., 1916, xxii, 399–402.
127. Nature, value, and necessity of team-work in a hospital. Mod. Hosp., 1916, vii, 1–3.
128. An appreciation of the roentgen-ray and a warning as to its use in surgical diagnosis. Am. Jour. Roentgenol., 1916, iii, 474–477.
129. Removal of the right colon: indications and technic. Jour. Am. Med. Assn., 1916, lxvii, 779–783.
130. The value of public health service. Public Health, 1916, iv, 533–535.
131. Dental research, its place in preventive medicine. Collected Papers Mayo Clinic, 1916, viii, 960–962; Jour. Nat. Dent. Assn., 1916, iii, 167–171.
132. The choice of operative procedure in cancer of the rectum and pelvic colon. Ann. Surg., 1917, lxv, 129–134; Tr. South. Surg. Assn., 1917, xxx, 449–456.
133. The relative merits of cholecystostomy and cholecystectomy. Surg., Gynec., and Obst., 1917, xxiv, 281–284.
134. The omentum, its physiologic value and the need of its preservation. Journal-Lancet, 1917, xxxvii, 321–323.
135. War's influence on medicine. Presidential address. Jour. Am. Med. Assn., 1917, lxviii, 1673–1677; New York Med. Jour., 1917, cv, 1057–1061.
136. Life expectancy following operations on the gallbladder. Proc. Life Ins. Med. Directors, 1917.
137. Enterostomy and the use of the omentum in the prevention and healing of fistula. Ann. Surg., 1917, lxvi, 568–570; Tr. Am. Surg. Assn., 1917, xxxv, 604–609.
138. A consideration of cancer of the large bowel. Long Island Med. Jour., 1917, xi, 129–131.
139. Jejunostomy: Its indications and methods. Journal-Lancet, 1917, xxxvii, 793–796.
140. Exstrophy of the bladder and its treatment. Jour. Am. Med. Assn., 1917, lxix, 2079–2081.
141. Medical service in the U. S. Army. St. Paul Med. Jour., 1917, xix, 351–353.
142. General surgery. Surg., Gynec., and Obst., 1917, xxv, 723–724.
143. War and the doctor. New York Med. Jour., 1917, cvi, 1081–1082.
144. Problems of infection. Minn. Med., 1918, i, 414–416.
145. The cancer problem. Can. Med. Assn. Jour., 1918, viii, 786–790; also Can. Pract. and Rev., 1918, xliii, 329–332; Tr. South. Surg. Assn., 1918, 102–104; Can. Med. Assn. Jour., 1918, viii, 786–790.
146. The principles of thyroid surgery. Jour. Am. Med. Assn., 1918, lxxi, 710–715; also Med. Press, 1919, n. s., cviii, 307–309.
147. Fistula of the colon. Ann. Surg., 1918, lxviii, 211–213; Tr. Am. Surg. Assn., 1918, xxxvi, 544–548.

148. The control of focal infection. Dental Cosmos, 1918, x, 963–965.
149. The treatment of peptic ulcer by gastro-enterostomy. Minn. Med., 1919, ii, 1–4.
150. Address in Surgery. The cancer problem. (Abstract.) New York Med. Jour., 1918, cviii, 88.
151. Educational possibilities of the National Medical Museum in the standardization of medical training. Jour. Am. Med. Assn., 1919, lxxiii, 411–413.
152. The relation of mouth conditions to general health. Jour. Nat. Dent. Assn., 1919, vi, 505–512.
153. War problems. Med. Rec., 1919, cxvi, 172–173.
154. Cancer of the stomach and its surgical treatment. Ann. Surg., 1919, lxx, 236–240; also Tr. Am. Surg. Assn., 1919, xxxvii, 378–396.
155. Exstrophy of the bladder. Contributions to Medical and Biological Research. Dedicated to Sir Wm. Osler in honor of his seventieth birthday, July 12, 1919, by his pupils and co-workers, New York, Hoeber, 1920, 1095–1110.
156. The surgical treatment of bunions. Minn. Med., 1920, iii, 326–331.
157. Jaundice: Its surgical significance. Surg., Gynec., and Obst,. 1920, xxx, 545–549.
158. Stone in the kidney. Ann. Surg., 1920, lxxi, 123–127.
159. A cabinet officer for supervision of national health and educational problems. Jour. Am. Med. Assn., 1920, lxxiv, 691.
160. The health problems of a small city. Jour. Am. Med. Assn., 1920, lxxiv, 1187.
161. Address of welcome. Tr. Assn. Res. and Ex-Res. Phys. Mayo Clinic, 1920, i, 18–19.
162. The educational value of hospital efficiency. Hosp. Prog., 1920, i, 15–16.
163. Address of welcome. Am. Jour. Roentgenol., 1920, vii, 576–577.
164. Adenoma with hyperthyroidism. Ann. Surg., 1920, lxxii, 134–140.
165. Surgical treatment of gastric ulcer. Brit. Med. Jour., 1920, ii, 103–105.
166. Tuberculous peritonitis. Minn. Med., 1921, iv, 259–264; also Riforma med., 1920, xxxvi, 721–722.
167. The thyroid. Med. Rec., 1921, c, 177–179.
168. Cholecystectomy with modified drainage. Minn. Med., 1921, iv, 1–9.
169. Gastric and duodenal ulcers. Ann. Surg., 1921, lxxiii, 328–337; Med. Rec., 1921, xcix, 333–334.
170. The thyroid and its diseases. Surg., Gynec., and Obst., 1921, xxxii, 209–213; Jour. Iowa State Med. Soc., 1921, xi, 297–300.
171. The formation of a cloaca in the treatment of exstrophy of the bladder. Surg. Clin. N. Amer., 1921, i, 1257–1266.
172. Carcinoma developing on gastric ulcer. Jour. Am. Med. Assn., 1921, lxxvii, 177–181.
173. Surgery of the thyroid. Keen's Surgery, Philadelphia, Saunders, 1921, viii, 25–41.
174. Jaundice from pancreatic disease. Minn. Med., 1922, v, 6–9.
175. Postoperative intra-abdominal hernia. Arch. Surg., 1922, iv, 324–333. (With J. A. H. Magoun.)
176. The thyroid and its diseases. Tr. Med. Assn. Alabama, 1922.
177. Do you covet distinction? Am. Jour. Nursing, 1922, xxii, 251–252.
178. The nurse anesthetist. Trained Nurse and Hosp. Rev., 1923, 328–329.
179. What should a dental student be taught regarding oral infections? Proc. Thirtieth Annual Meeting, Am. Inst. Dental Teachers, 1923, 153–157.
180. Dentistry and its relation to preventive medicine. Dental Sum:, 1923, xliii, 5–14. (With J. G. Meisser.)
181. The cause and relief of acute intestinal obstruction. Jour. Am. Med. Assn., 1922, lxxix, 194–197.
182. End-results in cancer as influenced by type, reaction, location, and age. Ann. Surg., 1922, lxxvi, 308–311.
183. Focal infection of dental origin. Dental Cosmos, 1922, lxiv, 1206–1208.

184. The treatment of chronic ulcers of the stomach and duodenum. Am. Jour. Surg., 1922, xxxvi, 129–130; Med. Sentinel, 1922, xxx, 327–330.
185. Treatment of diverticulum of the esophagus. Ann. Surg., 1923, lxxvii, 267–271.
186. The mortality rate following operations on the thyroid gland. Jour. Am. Med. Assn., 1923, lxxx, 891–893. (With W. M. Boothby.)
187. Focal infection in chronic and recurring disease. Virginia Med. Month., 1923, xlix, 557–560.
188. Surgery of the thyroid and its mortality. Ann. Surg., 1923, lxxviii, 145–149. (With J. deJ. Pemberton.)
189. The function of the thyroid gland and the lowered mortality following its surgical treatment. Jour. Indiana State Med. Assn., 1924, xvii, 1–3.
190. Transplantation of ureters into rectum. End-results in thirty-five cases of exstrophy of the bladder. Jour. Am. Med. Assn., 1924, lxxxii, 624–626. (With W. Walters.)
191. The operative treatment of vesicovaginal fistulas. Surg. Clin. N. Amer., 1924, iv, 399–406. (With W. Walters.)
192. Gastroduodenostomy: Its indications. Surg., Gynec., and Obst., 1924, xxxviii, 583–587.
193. Malformations. New Orleans Med. and Surg. Jour., 1924, lxxvi, 485–487.
194. The trend of modern surgery. Tr. Assn. Res. and Ex-Res. Phys. Mayo Clinic, 1924, v, 125.
195. Protect the individual in the middle span of life. Assn. Life Insurance Presidents, New York, 1924.
196. Appendix and abdominal diseases. Jour. Am. Med. Assn., 1924, lxxxiii, 592–593.
197. The two-stage Mikulicz operation for cancer of the sigmoid. Surg., Gynec., and Obst., 1924, xxxix, 1–4. (With W. Walters.)
198. Tuberculosis and its transmission. Proc. United States Live Stock Sanitary Assn., 1924, 143–146.
199. Hourglass stomach and duodenum. Ann. Surg., 1925, lxxxi, 313–321.
200. Address of welcome. (Before Am. Assn. Thoracic Surgeons.) Arch. Surg, 1925, x, 263.
201. Address of the president, American College of Surgeons. Surg., Gynec., and Obst., 1925, xl, 447–448.
202. Calcium. Surg., Gynec., and Obst., 1925, xl, 822–825.
203. Gallstones and diseases of the gallbladder. Ann. Surg., 1925, lxxxi, 955–960; Tr. South. Surg. Assn., 1924, xxxvii, 136–146.
204. Infection, and its relation to general and local disease. Illinois Med. Jour., 1925, xlvii, 274–276; Jour. Iowa State Med. Soc., 1925, xv, 546–548.
205. Focal infection. Jour. Am. Dent. Assn., 1925, xii, 970–973.
206. Ulcer of the stomach and duodenum. Surg. Clin. N. Amer., 1925, v, 639–642.
207. Methods of ureteral repair and transplantation. Ann. Surg., 1925, lxxxii, 472–474.
208. The thyroid gland. (Beaumont Lecture, St. Louis, C. V. Mosby Company, 1925.)
209. A consideration of gastric and duodenal ulcer. Proc. Roy. Soc. Med., 1925, xviii, sect. surg., 73–77.
210. Methods of caring for diseases of the pharynx, larynx, and mouth. Jour. Laryngol. and Otol., 1925, xl, 697–701; Proc. Roy. Soc. Med., 1925, xix, No. 1. (Sect. Laryngol.), 8.
211. The use of iodin in the treatment of goiter. Irish Jour. Med. Sc., 1925, S. 5, 530–532.
212. Sunlight. Tr. Res. and Ex-Res. Phys. Mayo Clinic, 1925, vi, 289–291.
213. Hepatic function in health and disease. Surg., Gynec., and Obst., 1926, xlii, 9–14.
214. Carcinoma of the right segment of the colon. Ann. Surg., 1926, lxxxiii, 357–363. (With W. A. Hendricks.)
215. Avian tuberculosis in man. South. Med. Jour., 1926, xix, 29–34. (With W. A. Hendricks.)

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William J. Mayo

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Bibliography.—1. Reports of operations for ovarian tumor. Tr. Minn. State Med. Soc., 1885, 45–58. (With W. W. Mayo.)
2. Infantile spinal paralysis. Tr. Minn. State Med. Soc., 1886, 143–148.
3. Mastoid abscess; opening mastoid cells. Northwest. Lancet, 1886, vi, 64.
4. A report of a year's work on fractures. Tr. Minn. State Med. Soc., 1886, 76–81. (With W. W. Mayo.)
5. Compound fracture of the lower end of the humerus, with simple fracture of the condyles and head of radius: Excision resulting in good motion. Northwest. Lancet, 1886, vi, 64–65.
6. Observations on the surgical treatment of rectal diseases. Tr. Minn. State Med. Soc., 1887, 81–86. (With W. W. Mayo.)
7. Inflammations involving the cecum, its appendix, or both. Tr. Minn. State Med. Soc., 1888, 63–72.
8. Successful operation for large ventral hernia. Northwest. Lancet, 1888, viii, 116. (With W. W. Mayo.)
9. Dressing for ulcer of the leg. Northwest. Lancet, 1888, viii, 116–117. (With W. W. Mayo.)
10. Prostatic hypertrophy. Tr. Minn. State Med. Soc., 1889, 39–48.
11. A discussion of some features of periuterine and perityphilitic abscesses. Northwest. Lancet, 1890, x, 166–168.
12. The importance of uterine drainage. Northwest. Lancet, 1890, x, 315–316.
13. Report of Clinic at St. Mary's Hospital, Rochester, Minnesota, Jan. 19, 1891. Northwest. Lancet, 1891, xi, 91–92. (With C. H. Mayo.)
14. Artificial prolapse as an aid to diagnosis and certain operations on the uterus and vagina. Northwest. Lancet, 1891, xi, 320.
15. Cancer and its surgical treatment. Northwest. Lancet, 1892, xii, 67–70.
16. Report of two operations for the relief of gallstones and one for stricture of the common duct of the liver. Northwest. Lancet, 1892, xii, 101–102.
17. The question of the removal of the ovaries and tubes for chronic disease. Northwest. Lancet, 1892, xii, 198–201.
18. The great omentum in abdominal and pelvic surgery. Northwest. Lancet, 1893, xiii, 447–449.
19. Report of a case of volvulus of the sigmoid flexure of the colon successfully reduced after abdominal section. Ann. Surg., 1893, xviii, 28–29.
20. Less commonly recognized forms of surgical tuberculosis. Northwest. Lancet, 1893, xiii, 7–8.
21. Extra-uterine pregnancy. Its causes and varieties. Northwest. Lancet, 1893, xiii, 125–127.
22. Complete obstruction of the common duct of the liver. Anastomosis between the gallbladder and jejunum by means of Murphy's button. Northwest. Lancet, 1893, xiii, 236. (With C. H. Mayo.)
23. Surgery of the gallbladder, cystic and common ducts, with report of seven cases operated upon. Jour. Am. Med. Assn., 1893, xxi, 301–302.
24. The medical profession and its relations to the sister professions and the public. Northwest. Lancet, 1894, xiv, 241–242.
25. Stricture of the esophagus. Division and dilatation after gastrostomy and esophagotomy. Testimony as to the value of Abbe's string method of division. New York Med. Jour., 1894, lix, 433.
26. Cicatricial stenosis of the esophagus and its surgical treatment, with report of three cases. Northwest. Lancet, 1894, xiv, 141–144.

27. Pancreatic cyst. Ureterovaginal fistula, the result of vaginal hysterectomy. Successful reimplantation of ureter into the bladder. Med. Rec., 1894, xlv, 168–169.
28. Surgery of the stomach. Med. Record, 1894, xlvi, 580–582.
29. The diagnosis of the surgical diseases of the kidney. Northwest. Lancet, 1895, xv, 127–130.
30. Radical cure of hernia. Northwest. Lancet, 1895, xv, 327–330.
31. Is hysterectomy indicated when the ovaries and tubes are removed for inflammatory diseases, and if so, by the abdominal or vaginal route? Northwest. Lancet, 1895, xv, 425–427; Tr. Minn. State Med. Soc., 1895, 86–88.
32. Clinical report. I. Complete section of the vas deferens, end-to-end union. II. Acute suppuration of knee-joint; open treatment. III. Gastro-enterostomy by the Murphy button; anastomoses by this method. Ann. Surg., 1895, xxi, 35–44. (With C. H. Mayo.)
33. Gunshot wound of the abdomen. Perforation of the intestines and kidney. Operation and recovery. Northwest. Lancet, 1895, xv, 51–52.
34. Address delivered to the graduating class of the medical department of the Minnesota State University, May 5, 1895. Northwest. Lancet, 1895, xv, 221–225.
35. Gallstone disease. New York Med. Jour., 1895, lxii, 233–236.
36. Cesarean section and puerperal hysterectomy for pregnancy complicating myofibroma: Porro's method: Recovery of mother and child. Am. Jour. Obst., 1896, xxxiii, 54–58.
37. The various causes of pus in the pelvis. Northwest. Lancet, 1896, xvi, 343–345.
38. A consideration of some of the principles underlying the surgical treatment of suppuration. Northwest. Lancet, 1896, xvi, 83–86.
39. Some mechanical causes of interference with the action of the stomach and their surgical relief. Jour. Am. Med. Assn., 1896, xxvi, 1101–1103.
40. Report of a case of chronic intussusception caused by an adenoma of the ileum, relieved by intestinal resection. Ann. Surg., 1896, xxiv, 733–735.
41. The preliminary examination of surgical patients. Northwest. Lancet, 1897, xvii, 87–90.
42. The treatment of posterior displacement of the uterus. Tr. Minn. State Med. Soc., 1897, 40–43.
43. A case of gunshot wound of the liver. Immediate operation. Recovery. New York Med. Jour., 1897, lxv, 392–393.
44. Cicatricial stenosis and valve formation as a cause of pyloric obstruction. A report of five cases relieved by operation. Jour. Am. Med. Assn., 1897, xxix, 778–782.
45. A case of vaginal anus, the result of a hysterectomy, cured by ileocolostomy. Ann. Surg., 1897, xxvi, 634–636.
46. The pathology and diagnosis of oblique fractures. Jour. Am. Med. Assn., 1898, xxx, 1280–1282.
47. Observations upon the diagnosis and surgical treatment of certain diseases of the stomach, based upon personal experience. Med. Rec., 1898, liii, 836–838.
48. The diagnosis and surgical treatment of malignant obstruction of the pylorus. Jour. Am. Med. Assn., 1898, xxxi, 323–328.
49. The treatment of extra-uterine pregnancy. Northwest. Lancet, 1899, xix, 12–15; Tr. Minn. State Med. Soc., 1898, 166–168.
50. Remarks on the radical cure of hernia. Ann. Surg., 1899, xxix, 51–61.
51. Postgraduate work in Boston. St. Paul Med. Jour., 1899, i, 389–390.
52. The esophagus. Cicatricial stricture thereof: Its treatment. Jour. Am. Med. Assn., 1899, xxxiii, 243–248.
53. A report of two cases in which a stone in the ureter was successfully removed by operation. St. Paul Med. Jour., 1899, i, 598–601.
54. Localized tuberculosis of the intestine: A report of seven operated cases. New York Med. Jour., 1899, lxx, 253–258.

55. Some observations on the surgery of the gallbladder and the bile ducts. Ann. Surg., 1899, xxx, 452–458.
56. Malignant disease of the stomach and pylorus. St. Paul Med. Jour., 1900, ii, 520–525.
57. The surgical treatment of diseases of the stomach. Philadelphia Med. Jour., 1900, v, 299–303. Riforma med., Palermo, 1900, i, 73–75.
58. Malignant diseases of the stomach and pylorus. Ann. Surg., 1900, xxxii, 251–277.
59. Lymphatic involvement in cancer of the stomach. Med. Rec., 1900, lvii, 928.
60. A medical visit to New Orleans. St. Paul Med. Jour., 1900, ii, 208–209.
61. The ileocecal orifice and its bearing on chronic constipation, with report of two cases relieved by operation. Ann. Surg., 1900, xxxii, 364–368.
62. Medical notes of a recent trip through Germany and France. St. Paul Med. Jour., 1900, ii, 725–733.
63. Cholecystectomy. With special reference to the removal of the mucous membrane of the galibladder as a substitute. Report of a case in which the gallbladder was removed for malignant disease. Jour. Am. Med. Assn., 1900, xxxv, 1396–1397.
64. Some common diseases of the stomach and their surgical treatment. St. Paul Med. Jour., 1901, iii, 1–9.
65. Open treatment of suppuration of the knee-joint. Jour. Am. Med. Assn., 1901, xxxvi, 878–879.
66. Some remarks on inguinal colostomy. Am. Med., 1901, i, 120–122.
67. Cancer of the common bile duct. Report of a case of carcinoma of the duodenal end of the common duct with successful excision. St. Paul Med. Jour., 1901, iii, 374–380.
68. Pre-existing heart disease in reference to surgical operations. Am. Jour. Med. Sc., 1901, cxxii, 141–146.
69. Limitations of surgical work for the insane. Med. Rec., 1901, lx, 173–175.
70. Carcinoma of the cecum. With report of cases in which the cecum was removed for malignant disease. Jour. Am. Med. Assn., 1901, xxxvii, 1019–1021.
71. Some indications for gastro-enterostomy. St. Paul Med. Jour., 1901, iii, 737–742.
72. Observations on Canadian surgery. Northwest. Lancet, 1901, xxi, 462–464.
73. The surgical significance of jaundice. Northwest. Lancet, 1902, xxii.
74. Case of acute pancreatitis with fat necrosis. Operation. Recovery. Jour. Am. Med. Assn., 1902, xxxviii, 107.
75. Problems relating to surgery of the stomach. Boston Med. and Surg. Jour., 1902, cxlvi, 451–456.
76. Analysis of 328 operations upon the gallbladder and bile passages. Ann. Surg., 1902, xxxv, 732–744.
77. Complications following gastro-enterostomy. Ann. Surg., 1902, xxxvi, 231–244.
78. The surgical aspects of pancreatitis. Jour. Am. Med. Assn., 1902, xxxix, 807–809.
79. The radical cure of cancer of the stomach. St. Paul Med. Jour., 1902, iv, 851–856.
80. Malignant disease involving the gallbladder. Med. News, Dec. 13, 1902.
81. The causes of occasional failure of operation to cure gall-stone disease. Jour. Am. Med. Assn., 1903, xli, 1569–1571. St. Paul Med. Jour., 1903, v, 595–599.
82. The present status of surgery of the stomach. Wisconsin Med. Jour., 1903, ii, 83–90; Northwestern Lancet (Journal-Lancet), xxiii, 241–245.
83. Cancer of the gallbladder and biliary passages. Contributions to Med. Research (Vaughan), 1903, 128–137.
84. Malignant disease of the common bile duct. Northwest. Med., 1903, i, 173–177.
85. The present status of surgery of the gallbladder and bile ducts. Med. Rec., 1903, lxiii, 289–291.
86. A study of 534 operations upon the gallbladder and bile passages, with tabulated report of 547 operated cases. Boston Med. and Surg. Jour., 1903, cxlviii, 545–547; Tr. Cong. Am. Phys. and Surg., 1903, vi, 195–202.

87. Ulcer and cancer of the stomach from a surgical standpoint. Med. News, 1904, lxxxiv, 721–726.
88. A review of 303 operations upon the stomach and first portion of the duodenum, with tabulated report of 313 operated cases. Ann. Surg., 1903, xxxviii, 30–46; Tr. Philadelphia Acad. Surg., 1904, vi, 93–117.
89. Further experience with the vertical overlapping operation for the radical cure of umbilical hernia. Jour. Am. Med. Assn., 1903, xli, 225–228.
90. A clinical review of forty-six operated cases of duodenal ulcer. Tr. Am. Surg. Assn., 1904, xxii, 58–74. (With C. Graham.)
91. Chronic ulcer of the stomach and duodenum from a surgical standpoint. Cleveland Med. Jour., 1904, iii, 57–68. St. Paul Med. Jour., 1904, vi, 79–90.
92. Radical operations for the cure of cancer of the pyloric end of the stomach. Ann. Surg., 1904, xxxix, 321–332.
93. Some observations on the surgery of the common duct of the liver. Med. Rec., 1904, lxv, 681–684.
94. The association of surgical lesions in the upper abdomen. Jour. Am. Med. Assn., 1904, xlii, 1545–1549.
95. Duodenal ulcer, a clinical review of 58 operated cases, with some remarks on gastro-jejunostomy. Ann. Surg., 1904, xl, 900–908.
96. Chronic ulcer of the stomach and first portion of the duodenum, with especial reference to the surgical treatment. Jour. Am. Med. Assn., 1905, xlv, 1211–1216.
97. The diagnosis of gall-stone disease: based upon the clinical histories of 1,000 operated cases. St. Paul Med. Jour., 1905, vii, 79–85. (With C. H. Mayo.)
98. Chronic ulcer of the stomach and duodenum from a surgical standpoint, with some remarks on gastric fever. South. Med. and Surg. Jour., 1905, iii, 1–5.
99. A review of 1,000 operations for gall-stone disease with especial reference to the mortality. Northwest. Lancet, 1905, xxv, 10. Am. Jour. Med. Sc., 1905, cxxix, 375–380. (With C. H. Mayo.)
100. Surgical tuberculosis in the abdominal cavity, with special references to tuberculous peritonitis. Jour. Am. Med. Assn., 1905, lxiv, 1157–1160.
101. The diagnosis of gall-stone disease. Clin. Rev., 1905, xxii, 81–89. (With C. H. Mayo.)
102. Some remarks on cases involving operative loss of continuity of the common bile duct, with the report of a case of anastomosis between the hepatic duct and the duodenum. Ann. Surg., 1905, xlii, 90–96.
103. A review of 500 cases of gastro-enterostomy, including pyloroplasty, gastro-duodenostomy and gastrojejunostomy. Ann. Surg., 1905, xlii, 641–655; Tr. Am. Surg. Assn., 1905, xxiii, 165–193.
104. Cancer of the rectum. St. Paul Med. Jour., 1906, viii, 216–224.
105. The surgery of the stomach. Mobile Med. and Surg. Jour., 1906, viii, 275–285.
106. The surgical treatment of cancer of the stomach: with report of 100 gastric resections. Jour. Am. Med. Assn., 1906, xlvi, 999–1006; Allg. Wien. med. Ztg., 1906, li, 491–503.
107. The technic of gastrojejunostomy. Ann. Surg., 1906, xliii, 537–542.
108. The medical profession and the issues which confront it. (President's address at the Fifty-seventh Ann. Session of the Am. Med. Assn., Boston, Mass., June 5–8, 1906.) Jour. Am. Med. Assn., 1906, xlvi, 1737–1740; Jour. Minn. Med. Assn., 1906, xxvi, 239–244; Science, 1906, n. s., xxiii, 897–904; St. Louis Med. Rev., 1906, liii, 481–486; Boston Med. and Surg. Jour., 1906, cliv, 667–671.
109. A review of 1,500 operations upon the gallbladder and bile passages, with especial reference to the mortality. Ann. Surg., 1906, xliv, 209–216.
110. The surgical treatment of gastric and duodenal ulcer and its results. Jour. Am. Med Assn., 1906, xlvii, 912–915, 931–932.

111. Diseases of the biliary passages. Clin. Rev., 1906–1907, xxiv, 295–301. Yale Med. Jour., 1906–1907, xiii, 109–114.
112. Surgery of the kidney and ureter. Canada Lancet, 1906–1907, xi, 303–309.
113. The principles underlying the surgery of the stomach and associated viscera. Edinburgh Med. Jour., 1907, n. s., xxi, 7–18; Am. Jour. Med. Sc., 1907, cxxxiii, 1–13.
114. The contributions of surgery to a better understanding of gastric and duodenal ulcer. Ann. Surg., 1907, xlv, 810–817; Tr. Cong. Am. Phys. and Surg., 1907, vii, 102–108.
115. Radical cure of umbilical hernia. Jour. Am. Med. Assn., 1907, xlviii, 1842–1844.
116. Acquired diverticulitis of the large intestine. (With L. B. Wilson and H. Z. Giffin.) Surg., Gynec., and Obst., 1907, vi, 8–15. Tr. Am. Surg. Assn., 1907, xxv, 237–254.
117. Resection for the relief of intestinal obstruction. Jour. Am. Med. Assn., 1907, xlix, 903–905.
118. Present day surgery in England and Scotland; from notes made on a recent short visit. Jour. Minn. Med. Assn., 1907, xvii, 499–503.
119. Surgery of the stomach. Chicago Med. Times, 1908, xli, 151–154.
120. Surgery of the liver, the gallbladder, and the biliary ducts. Surgery (Keen), Philadelphia, 1908, iii, 966–1034. (With C. H. Mayo.)
121. Relation of the mesocolic band to gastro-enterostomy. Ann. Surg., 1908, xlvii, 1–3.
122. Pancreatitis resulting from gallstone disease. Jour. Am. Med. Assn., 1908, l, 1161–1164; New York State Jour. Med., 1908, viii, 169–172.
123. Hemorrhage from the stomach and duodenum. Surg., Gynec., and Obst., 1908, vi, 451–454.
124. Anemic spot on the duodenum, which may be mistaken for ulcer. Surg., Gynec., and Obst., 1908, vi, 600.
125. Chronic ulcer of the stomach and duodenum. Detroit Med. Jour., 1908, viii, 153–159. St. Paul Med. Jour., 1908, x, 331–338.
126. A study of gastric and duodenal ulcers, with especial reference to their surgical cure. Ann. Surg., 1908, xlvii, 884–893; Tr. Am. Surg. Assn., 1908, xxvi, 142–159.
127. Ulcer of the duodenum with report of 272 operations. Jour. Am. Med. Assn., 1908, li, 556–558.
128. The surgical treatment of pancreatitis. Surg., Gynec., and Obst., 1908, vii, 607–613. Lancet-Clinic, 1908, c, 654–659.
129. Tumors of the sigmoid. Montreal Med. Jour., 1909, xxxviii, 645–653. Oklahoma Med. News-Jour., 1910, xviii, 112–125.
130. Mesocolic or retrogastric hernia. Ann. Surg., 1909, xlix, 487–490.
131. Relation of anomalous renal blood vessels to hydronephrosis. Jour. Am. Med. Assn., 1909, lii, 1383–1388. (With W. F. Braasch and W. C. MacCarty.)
132. A disclaimer from the Mayo Brothers. Jour. Am. Med. Assn., 1909, lii, 1596. (With C. H. Mayo.)
133. Surgery of the large intestine: With a review of 100 resections. Ann. Surg., 1909, l, 200–228. Tr. Am. Surg. Assn., 1909, xxvii, 310–344.
134. Tumors of the cecum. Jour. Minn. Med. Assn., 1909, xxix, 523–527.
135. Carcinomata of the gallbladder and biliary passages. Collected Papers of St. Mary's Hospital, Mayo Clinic, 1910, ii, 144–150.
136. Commencement address, Rush Medical College, University of Chicago, June 15, 1910. Collected Papers of St. Mary's Hospital, Mayo Clinic, 1910, ii, 557–566.
137. Principles underlying surgery of the spleen, with a report of ten splenectomies. Jour. Am. Med. Assn., 1910, liv, 14–18.
138. Surgical cure of cancer of the gastro-intestinal canal. St. Paul Med. Jour., 1910, xii, 1–9; Kentucky Med. Jour., 1909–1910, viii, 1117–1127.
139. Gastrojejunal ulcers (pseudojejunal ulcers). Surg., Gynec., and Obst., 1910, x, 227–229.

140. The fatty fascial flap in plastic and other operations on the pelvis of the kidney. Surg., Gynec., and Obst., 1910, x, 353–365.
141. Radical operation for cancer of the pyloric end of the stomach. Review of 266 partial gastrectomies. Jour. Am. Med. Assn., 1910, liv, 1608–1612.
142. Removal of the rectum for cancer: Statistical report of 120 cases. Ann. Surg., 1910, li, 854–862; Tr. Am. Surg. Assn., 1910, xxviii, 525–536.
143. Notes on Italian surgery. Jour. Minn. Med. Assn., 1910, xxx, 373–380. Can. Jour. Med. and Surg., 1911, xxx, 211–225.
144. Transgastric excision of calloused ulcer of the posterior wall of the body of the stomach. Ann. Surg., 1910, lii, 797–800.
145. The economic value to the State of the University Hospital. Presented at the University of Minn. Sept. 5, 1911. Collected Papers of St. Mary's Hospital, Mayo Clinic, 1911, iii, 552–555.
146. Carcinomata of the gastro-intestinal tract. Collected Papers of St. Mary's Hospital, Mayo Clinic, 1911, iii, 130–135.
147. The surgical treatment of gallstone disease. Can. Med. Assn., Jour., 1911, i, 866–871.
148. Diseases of the stomach and duodenum from a surgical standpoint. St. Paul Med. Jour., 1911, xiii, 1–9; New York State Jour. Med., 1911, xi, 4–7; Long Island Med. Jour., 1911, v, 37–43.
149. Some observations on the operation of abdominal myomectomy for myomata of the uterus. Surg., Gynec., and Obst., 1911, xii, 97–102.
150. Some observations on the disorders of the stomach and duodenum, with especial reference to ulcers. Boston Med. and Surg. Jour., 1911, clxiv, 477–482.
151. "Innocent" gallstones a myth. Jour. Am. Med. Assn., 1911, lvi, 1021–1024.
152. Suprapubic transcystic removal of calculi impacted in the portion of the ureter which is situated in the bladder wall. Surg., Gynec., and Obst., 1911, xii, 524–525.
153. Ulcer of the stomach and duodenum, with special reference to the end results. Ann. Surg., 1911, liv, 313–320. Tr. Am. Surg. Assn., 1911, xxix, 332–341.
154. A visit to some of the hospitals and surgical clinics of France. Jour. Minn. Med. Assn., 1911, xxxi, 405–411.
155. Surgery of the spleen. Surg., Gynec., and Obst., 1913, xvi, 233–239. New York Med. Jour., 1912, xcvi, 1127–1128.
156. Operative results in carcinoma of the gastro-intestinal tract. Collected Papers of St. Mary's Hospital, Mayo Clinic, 1912, 135–151.
157. Carcinoma of the gastro-intestinal tract. Journal-Lancet, 1912, xxxii, 35–39. Buffalo Med. Jour., 1911–1912, lxvii, 305–309.
158. The incision for lumbar exposure of the kidney. Ann. Surg., 1912, lv, 63–65.
159. Gastrojejunostomy. Am. Jour. Surg., 1912, xxvi, 1–4.
160. Cancer of the stomach: Its surgical cure. Surg., Gynec., and Obst., 1912, xiv, 115–119.
161. Management of the opening in the transverse mesocolon in completing the operation for posterior gastrojejunostomy. Ann. Surg., 1912, lv, 398–399.
162. Jejunostomy. Am. Jour. Med. Sc., 1912, clxiii, 469–473.
163. The radical operation for the relief of cancer of the rectum and rectosigmoid. Ann. Surg., 1912, lvi, 240–255; Tr. Am. Surg. Assn., 1912, xxx, 156–175.
164. A short visit to some of the hospitals in Germany, Austria, Switzerland, and Holland. Journal-Lancet, 1912, xxxii, 423–427.
165. Surgical treatment of prolapse of the uterus and walls of the vagina. Jour. Am. Med. Assn., 1912, lix, 1421–1424.
166. Nephrectomy without drainage for tuberculous kidney. Surg., Gynec., and Obst., 1912, xv, 523.
167. Contributions of the nineteenth century to a living pathology. Ether Day Address. Boston Med. and Surg. Jour., 1912, clxvii, 751–754.

168. Grafting and traumatic dissemination of carcinoma in the course of operations for malignant disease. Jour. Am. Med. Assn., 1913, lx, 513.
169. Some of the disputed problems associated with surgery of the large intestine. Am. Jour. Med. Sc., 1913, cxlv, 157–161.
170. Pathologic data obtained from ulcers excised from the anterior wall of the duodenum. Ann. Surg., 1913, lvii, 691–694.
171. Palliative operations for the relief of incurable cancer of the stomach. St. Paul Med. Jour., 1913, xv, 269–273.
172. The surgery of the pancreas: I. Injuries to the pancreas in the course of operations on the stomach. II. Injuries to the pancreas in the course of operations on the spleen. III. Resection of half the pancreas for tumor. Ann. Surg., 1913, lviii, 145–150.
173. Operative treatment of cancer of the stomach. Jour. Am. Med. Assn., 1913, lxi, 540–543.
174. Notes from some of the surgical clinics in Germany, Belgium, and Great Britain, 1913. Journal-Lancet, 1913, xxxiii, 619–626.
175. Cholecystitis without stones or jaundice in its relation to chronic pancreatitis. Am. Jour. Med. Sc., 1914, cxlvii, 469–474.
176. Recurrences of ulcer of the duodenum following operation. Boston Med. and Surg. Jour., 1914, clxx, 149–151.
177. The radical operation for cancer of the pyloric end of the stomach. Surg., Gynec., and Obst., 1914, xix, 683–691.
178. Accidental injuries to the descending portion of the duodenum during removal of the right kidney. Jour. Am. Med. Assn., 1914, lxii, 323–345.
179. Chronic ulcers of the stomach and duodenum. Ann. Surg., 1914, lx, 220–226.
180. The prophylaxis of cancer. Ann. Surg., 1914, lix, 805–814; Tr. Am. Surg. Assn., xxxii, 1–19.
181. Resection of the first portion of the large intestine and the resulting effect on its function. Jour. Am. Med. Assn., 1914, lxiii, 446–449.
182. Surgery in relation to life insurance. Lancet-Clinic, 1914, cxii, 146–151.
183. A short visit to the surgical clinics of Russia, Finland, Sweden, Norway, Denmark, and Belgium. Journal-Lancet, 1914, xxxiv, 451–475.
184. The influence of European surgery on American practice. St. Paul Med. Jour., 1914, xvi, 601–605. Memphis Med. Month., 1915, xxxv, 26–29.
185. Septic complications in syphilis, tuberculosis, and cancer. Jour. Iowa State Med. Soc., Feb., 1915.
186. The cancer problem. Journal-Lancet, 1915, xxxv, 339–343. Maryland Med. Jour., 1915, lviii, 235–241.
187. Surgical considerations of splenectomy. Ann. Surg., 1915, lxii, 172–176.
188. Gastric ulcer. Jour. Am. Med. Assn., 1915, lxv, 1069–1073.
189. The relation of the spleen to certain anemias. Indiana State Med. Jour,. 1915, viii, 499–504.
190. Chronic duodenal ulcer. Jour. Am. Med. Assn., 1915, lxiv, 2036–2040.
191. Unsuccessful gastro-enterostomy for ulcer; an analysis of its causes; suggestions for better technic. Clinics John B. Murphy, 1915, iv, 457–461.
192. Cancer: Its prevention and cure. Am. Med. Assn., Commem. vol., 1915, 287–316.
193. Procedures following nephrectomy: I. The transperitoneal closure of duodenal fistulas following nephrectomy. II. The two-forcep method for the ligation of vascular pedicles with special reference to nephrectomy. III. The management of the ureter after nephrectomy for tuberculosis. Jour. Am. Med. Assn., 1915, lxiv, 953–957.
194. Acute perforations in the abdomen, traumatic, spontaneous. Railway Surg. Jour., 1916, xxii, 393–395.
195. Restoration of the bile passages after serious injury to the common or hepatic ducts. Surg., Gynec., and Obst., 1916, xxii, 1–16.

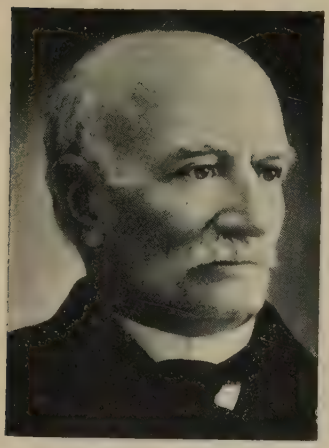
196. The spleen: Its association with the liver and its relation to certain conditions of the blood. Jour. Am. Med. Assn., 1916, lxvi, 716–721.
197. The radical operation for cancer of the rectum and recto-sigmoid. Ann. Surg., 1919, lxiv, 304–310.
198. Radical operations for the cure of cancer of the second half of the large intestine, not including the rectum. Jour. Am. Med. Assn., 1916, lxvii, 1279–1284.
199. Anatomy, physiology, and pathology of the large intestine, with some observations on the radical operation for colonic tumors. Jour. S. Carolina Med. Assn., 1916, xii, 165–172.
200. Removal of stones from the kidney. Surg., Gynec., and Obst., 1917, xxiv, 1–8.
201. An appreciation of Dr. John B. Murphy. Encyclopedia of American Medical Biography. Ed. 3, 1916.
202. A consideration of some of the maladies in which splenectomy may be indicated. Lancet, 1916, ii, 889–892.
203. The importance of septic infection in the three plagues (syphilis, tuberculosis, and cancer). Tr. Med. Assn., Alabama, 1917, 172–187.
204. Myomas of the uterus with special reference to myomectomy. Jour. Am. Med. Assn., 1917, lxviii, 887–890.
205. Transperitoneal sigmoidotomy for the removal of tumors in the mucous membrane. Ann. Surg., 1917, lxvi, 64–68.
206. Diverticulitis of the large intestine. Jour. Am. Med. Assn., 1917, lxix, 781–785.
207. The relation of the spleen to certain obscure clinical phenomena. Med. Record, 1917, xcii, 705–711.
208. A study of the rectosigmoid. Surg., Gynec., and Obst., 1917, xxv, 616–621.
209. The liver and its cirrhoses. Jour. Am. Med. Assn., 1918, lxx, 1361–1364.
210. Cancer of the stomach. Surg., Gynec., and Obst., 1918, xxvi, 367–370.
211. Secondary tuberculous peritonitis; its cause and cure. New York Med. Jour., 1918, cvii, 1139–1140; Jour. Am. Med. Assn., 1918, lxxi, 6–8.
212. Medical advisory boards. Minn. Med., 1918, i, 66–67.
213. The surgical treatment of the cirrhoses of the liver and their complications. New York Med. Jour., 1918, cvii, 1180; Ann. Surg., 1918, lxviii, 183–187.
214. Acute perforations of the abdominal viscera. Surg., Gynec., and Obst., 1919, xxviii, 28–32.
215. Modifications of some civil surgical practices suggested by the surgery of the war. South. Med. Jour., 1919, xii, 31–35.
216. Hematogenous infections of the kidney. Jour. Am. Med. Assn., 1919, lxxiii, 1023–1027.
217. The results of splenectomy in the anemias. Ann. Surg., 1919, lxx, 22–29.
218. Some of the old hospitals of London with special reference to the treatment of fistula in ano with hemorrhoids. Minn. Med., 1919, ii, 197–201.
219. Splenic anemia. Contributions to medical and biological research. Dedicated to Sir William Osler, in honor of his seventieth birthday, July 12, 1919, by his pupils and co-workers. New York, Hoeber, 1919, ii, 991–1001. (With D. C. Balfour.)
220. The relation of cancer to the prolongation of human life. Surg., Gynec., and Obst., 1920, xxx, 22–25.
221. Presidential address before the Clinical Congress of the American College of Surgeons. Surg., Gynec., and Obst., 1920, xxx, 97–99.
222. Socialization of medicine and of law. Proc. Minn. and Wis. State Bar Assn., Jan., 1920.
223. Relation of the development of the gastro-intestinal tract to abdominal surgery. The relation of anatomy to present-day surgery (Part I). Co-ordination of the functions of the gastro-intestinal tract (Part II). Jour. Am. Med. Assn., 1920, lxxiv, 367–372; Ransahoff Memorial Volume, Cincinnati, Rosenthal, 1921, 391–401.

224. Conservation of the menstrual function. Jour. Am. Med. Assn., 1920, lxxiv, 1685–1688.
225. The calloused ulcer of the posterior wall of the stomach. Ann. Surg., 1920, lxxii, 109–114.
226. Editorial: South American Surgeons. Surg., Gynec., and Obst., 1920, xxx, 534.
227. Editorial Announcement. Arch. Surg., Introductory, i, 1920.
228. Observations on South America. Jour. Am. Med. Assn., 1920, lxxv, 311–315, 377–378, 475–477, 540–541, 606–607, 672–673.
229. Surgery of the gallbladder and the biliary ducts. Keen's Surgery, 1921, viii, 451–459. (With D. C. Balfour.)
230. Mortality and end results in surgery. Surg., Gynec., and Obst., 1921, xxxii, 97–102.
231. Hemolytic icterus. Minn. Med., 1921, iv, 138–140.
232. The relation of chronic fibrosis and thrombophlebitis of the spleen to conditions of the blood and of the liver. Arch. Surg., 1921, ii, 185–195.
233. The medical profession and the public. Jour. Am. Med. Assn., 1921, lxxvi, 921–925.
234. In the time of Henry Jacob Bigelow. Jour. Am. Med. Assn., 1921, lxxvii, 597–603.
235. Splenectomy in splenic anemia and Banti's disease. Jour. Am. Med. Assn., 1921, lxxvii, 34–37.
236. Pernicious anemia with special reference to the spleen and the large intestine. Ann. Surg., 1921, lxxiv, 355–359.
237. Splenic syndromes. Surg. Clin. N. Amer., 1921, i, 1307–1325.
238. Diverticulitis of the sigmoid. Virginia Med. Monthly, 1921, xlviii, 427–433.
239. Surgical significance of hepatic incompetency. Surg., Gynec., and Obst., 1921, xxxiii, 463–469.
240. Editorial I. Standardization of hospital statistics. Surg., Gynec., and Obst., 1921, xxxiii, 312–313.
241. Editorial II. Surgical end results and hospital morbidity. Surg., Gynec., and Obst., 1921, xxxiii, 432–433.
242. Editorial III. Gastro-intestinal union following partial gastrectomy for cancer. Surg., Gynec., and Obst., 1921, xxxiii, 578–579.
243. Editorial IV. Contributions of surgery to our knowledge of the physiology and pathology of the spleen. Surg., Gynec., and Obst., 1921, xxxiii, 704–705.
244. Editorial Foreword. Surg., Gynec., and Obst., 1922, xxxiv, 123.
245. Editorial VI. Myomectomy. Surg., Gynec., and Obst., 1922, xxxiv, 548–550.
246. Editorial VII. Too late and too early. Surg., Gynec., and Obst., 1922, xxxiv, 278–279.
247. Editorial VIII. Perforations and the "fatal improvement." Surg., Gynec., and Obst., 1922, xxxiv, 821–823.
248. The peritoneal manifestations of chronic multiple serositis—Concato's disease. Ann. Surg., 1922, lxxvi, 432–437.
249. Progress in the handling of peptic ulcers. Jour. Am. Med. Assn., 1922, lxxix, 19–22.
250. Myomectomy for myomas of the uterus. Northwest Med., 1922, xxi, 235–238. Also: Arch. Franco-Belges de Chir., 1922, xxv, 769–776.
251. Biographical foreword. Surg., Gynec., and Obst., 1922, xxv, 115.
252. Editorial IX. The influence of adiposity in surgical results. Surg., Gynec., and Obst., 1922, xxxv, 364.
253. Mexico. Surg., Gynec., and Obst., 1922, xxv, 376–380.
254. The relation of splenic syndromes to the pathology of the blood. III. Med. Jour., 1922, xli, 175–181; Jour. Iowa State Med. Soc., 1922, xii, 243–248; Wisconsin Med. Jour., 1922, xx, 503–509.
255. Editorial. The rural community hospital. Minneapolis Journal, September, 1922.
256. Foreword. Regional Anesthesia, by Labat. Philadelphia, Saunders, 1922, pp. iii–iv.
257. Diseases of the spleen. Ann. Clin. Med., 1922, i, 141–145.

258. Editorial X. End results in ulcer of the stomach and duodenum. Surg., Gynec., and Obst., 1923, xxxvi, 284–285.
259. Editorial XI. Apprehension. Surg., Gynec., and Obst., 1923, xxxvi, 428–429.
260. Editorial XII. Gastro-intestinal obstructions. Surg., Gynec., and Obst., 1923, xxxvi, 112–113.
261. Radical operations on the stomach with special reference to mobilization of the lesser curvature. Surg., Gynec., and Obst., 1923, xxxvi, 447–453.
262. The significance of lymphatic involvement in the infections. Jour. Am. Med. Assn., 1923, lxxx, 221–224.
263. The major infections. Jour. Iowa State Med. Soc., 1923, xiii, 233–239; Illinois Med. Jour., 1923, xliii, 283–289; Wisconsin Med. Jour., 1923, xxii, 105–111.
264. The septic factor in the three great plagues. Can. Med. Assn., 1923, xiii, 549–554.
265. The splenic syndromes. La Société Internationale de Chirurgie, London, June, 1923.
266. A question of size. Ann. Surg., 1923, lxxviii, 139–144.
267. Surgery of the hepatic and common bile ducts. Proc. Roy. Soc. Med., 1923, xvii, Surg. Sect., 1–8; Lancet, 1923, i, 1299–1302; Brit. Med. Jour., 1923, ii, 7–8.
268. Address. Hosp. Progress, 1923, iv, 240.
269. Dublin to-day. (Editorial.) Surg., Gynec., and Obst., 1923, xxxvii, 697–698.
270. The relation of physics to surgery. Guy's Hosp. Gaz., 1923, xxxvii, 324–329.
271. Problems underlying hospital administration. Boston Med. and Surg., Jour., 1923, clxxxix, 736–740.
272. The ideals and achievements of the American College of Surgeons. (Address, John B. Murphy Memorial Building.) Surg., Gynec., and Obst., 1924, xxxviii, 282–284.
273. The function of the University concerns the tomorrows; the function of the Government, the yesterdays, and todays. (Commencement address.) Harvard News, 1924, June 19.
274. Certain medical and surgical aspects of disease of the biliary apparatus. Illinois Med. Jour., 1924, xlv, 33–37; Wisconsin Med. Jour., 1924, xxii, 453–457; Jour. Iowa State Med. Soc., 1924, xiv, 191–195.
275. Cholecystostomy versus cholecystectomy. (Editorial.) Surg., Gynec., and Obst., 1924, xxxviii, 125–126.
276. The splenomegalias. Boston Med. and Surg., Jour., 1924, cxc, 1–6; New Zealand Med. Jour., 1924, xxiii, 95–108.
277. Co-ordination of human vegetative functions. Surg., Gynec., and Obst., 1924, xxxviii, 312–317.
278. Abridgment of Mayo Foundation lectures. I. Surgery of the kidney. II. The spleen. III. Cancer of the stomach. Surg. Clin. N. Amer., 1924, iv, 573–586.
279. Medical journals in the English language. (Editorial.) Surg., Gynec., and Obst., 1924, xxxviii, 560–561.
280. New Zealand and Australia. (Editorial.) Surg., Gynec., and Obst., 1924, xxxviii, 833–835.
281. The surgical treatment of hepatic cirrhoses. Ann. Surg., 1924, lxxx, 419–424.
282. Renal surgery. New Zealand Med. Jour., 1924, xxiii, 123–126.
283. Remarks on renal tumors. New Zealand Med. Jour., 1924, xxiii, 197–198.
284. Gastro-enterostomy. (Editorial.) Surg., Gynec., and Obst., 1924, xxxix, 241–243.
285. Certain blood dyscrasias dependent on pathologic conditions of the spleen. Jour. Am. Med. Assn., 1924, lxxxiii, 815–818.
286. The influence of ignorance and neglect on the incidence and mortality of cancer. Jour. Indiana State Med. Assn., 1924, xvii, 331–334.
287. Les fonctions végétatives chez l'homme et leur coördination. Arch. méd. belges, 1924, lxxvii, 1049–1056.
288. Cancer of the uterus. (Editorial.) Surg., Gynec., and Obst., 1924, xxxix, 511–512.

289. The future of the clinic. Tr. Assn. Res. and Ex-Res. Phys. Mayo Clinic, 1924, v, 121–124.
290. The relative values of surgery and radiotherapy. Minn. Med., 1925, viii, 7–10.
291. Specialization in surgery. Arch. Surg., 1925, x, 264–266.
292. Masters of surgery in the early years of the Annals of Surgery. Ann. Surg., 1925, lxxxi, 3–8.
293. Appreciation of Dr. John Hunter. Surg., Gynec., and Obst., 1925, xl, 284–287.
294. The relation of the spleen to certain chronic purpuras. Surg., Gynec., and Obst., 1925, xl, 771–775.
295. Progress of surgery in the last two decades. (Editorial.) Surg., Gynec., and Obst., 1925, xl, 737–739.
296. Contributions of pure science to progressive medicine. Jour. Am. Med. Assn., 1925, lxxxiv, 1465–1469.
297. Advances in surgery through physicochemic studies of the blood. Wisconsin Med. Jour., 1925, xxiii, 545–549; Jour. Iowa State Med. Soc., 1925, xv, 105–108; Illinois Med. Jour., 1925, xlvii, 185–188.
298. Master surgeons of America. Arpad Geza Charles Gerster. Surg., Gynec., and Obst., 1925, xl, 582–584.
299. Congress of American Physicians and Surgeons. (Editorial.) Surg., Gynec., and Obst., 1925, xl, 714–716.
300. Filtration phenomena in relation to clinical medicine. Surg. Clin. N. Amer., 1925, v, 633–638.
301. An appreciation of Dr. Lewis S. McMurty. Kentucky Med. Jour., 1925, xxiii, 447–448.
302. Memoir: Albert J. Ochsner. Surg., Gynec., and Obst., 1925, xli, 255–257.
303. Physiology and pathology of the blood in relation to surgery. Jour. Michigan Med. Soc., 1925, xxiv, 231–237.
304. The relation of the spleen to certain chronic purpuras. Surg., Gynec., and Obst., 1925, xl, 771–775.
305. Abnormal function of the liver. Jour. Am. Med. Assn., 1925, lxxxv, 883–886. (With W. Walters.)
306. Studies in physicochemistry and their relation to clinical medicine. Journal-Lancet, 1925, xlv, 511–515.
307. Medical education. Tr. Res. and Ex-Res. Phys. Mayo Clinic, 1925, vi, 285–287.
308. Clinic: surgical cases of anemia. Proc. Inter-State Post-Graduate Med. Assembly N. Amer., 1925, 412–421.
309. The practical value to the surgeon of the knowledge of physicochemistry. Proc. Inter-State Post-Graduate Med. Assembly N. Amer., 1925, 441–444.
310. The surgical significance of certain biochemical phenomena. (Before Cleveland Academy of Medicine, September, 1925.)
311. The twilight zone of medicine. Atlantic Med. Jour., 1925, xxix, 135–139.
312. Keep the home fires burning. (Editorial.) Surg., Gynec., and Obst., 1926, xlii, 575–576.
313. The teaching hospital of the University of Michigan. Jour. Michigan State Med. Soc., 1926, xxv, 9–12.
314. The splenic syndromes. Jour. Michigan State Med. Soc., 1926, xxv, 19–24.
315. A short discourse on surgery of the gallbladder. Surg., Gynec., and Obst., 1926, xliii, 46–49.

Mayo, William W., M.D., was born May 31, 1819 near Manchester, England. He was educated in Owens College, Manchester, now part of the University of Manchester. He was a student and protégé of the famous physicist, John Dalton, and under his direction was trained as a physicist and chemist. In 1845 he came to New York, and two years later began the study of medicine at Lafayette, Indiana, with Dr. James Deming as preceptor. He went to St. Louis in 1849 to finish his medical course in the University of Missouri, was assistant to Prof. John Hodges at the same time, and continued the study of chemistry and physics. He received the degree of M.D. in 1854. In 1871 he had a graduate course at Bellevue Hospital, New York City, and received an addendum degree. In 1854, after receiving the degree of M.D., he moved to La Porte, Indiana, where, with Dr. William Byford, he started a medical school which was wiped out by fire during the first term. In 1855 he established his family in St. Paul and practiced medicine. He was also engaged in other pursuits. He went to the northern part of Minnesota for the Northwestern Exploring Company, filed a claim on land opposite the Bay of St. Louis, was appointed by the territorial governor chairman of the first board of county commissioners of St. Louis County, and located the county-seat on the present site of the city of Duluth; he was also appointed to take the 1855 census. From 1856 to 1861 he practiced medicine in Le Sueur, Minnesota. He was appointed head of the local draft board in 1861 at the beginning of the War of the Rebellion, and the following year, during the uprising of the Sioux Indians, was surgeon for the relief force at New Ulm. In 1863 he moved to Rochester to practice, while still in charge of the draft board. He successfully performed his first laparotomy for ovarian tumor in 1871, and during the next thirteen years performed thirty-six similar operations. Dr. Mayo was among the first physicians in the West to employ the microscope and to become expert in its use. He was a member of the Olmsted County Medical Society, which he organized, the Minnesota State Medical Association, of which he was one of the founders, and the American Medical Association. He made numerous contributions to medical literature on various medical and surgical topics. He was elected Mayor of Rochester several times and served two terms as State Senator. He married Louise A. Wright in 1849. He died March 6, 1911 in Rochester, Minnesota.



William W. Mayo

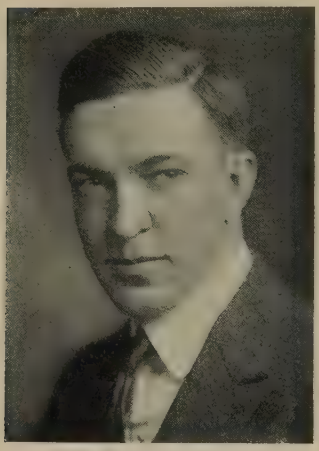
Bibliography.*—1. A case of tubular pregnancy, with remarks upon the difficulties attending a correct diagnosis of abdominal tumors. Tr. Minn. State Med. Soc., 1871, 25–27.
2. Rectocele. Tr. Minn. State Med. Soc., 1872, 18–25.
3. Inaugural address of the Minnesota State Medical Society. Tr. Minn. State Med. Soc., 1872, 33–35.
4. Opening address of the Minnesota State Medical Society. Tr. Minn. State Med. Soc., 1873, 13–15.
5. The relations of physicians to the public and each other. Annual address by the president of the society. Tr. Minn. State Med. Soc., 1873, 24–37.
6. Report of a case of purpura hæmorrhagica. Tr. Minn. State Med. Soc., 1878, 170–174.
7. Lingual epithelioma. Tr. Minn. State Med. Soc., 1885, 49.
8. Traumatic stricture; perineal section. Tr. Minn. State Med. Soc., 1885, 48.
9. Ovariotomy; three cases. Tr. Minn. State Med. Soc., 1885, 45–48.
10. A report of a year's work on fractures. Tr. Minn. State Med. Soc., 1886, 76–81.
11. Observations on the surgical treatment of rectal diseases. Tr. Minn. State Med. Soc., 1887, 81–86.
12. Successful operation for large ventral hernia. Northwest. Lancet, 1888, viii, 116.
13. Dressing for ulcer of the leg. Northwest. Lancet, 1888, viii, 116–117.

* Complete bibliography not obtainable.

Maytum, Charles K., M.D., was born December 20, 1895 in Alexandria, South Dakota; attended the University of South Dakota for two years; received the degree of M.D. from the University of Iowa in 1919; was intern at the Cincinnati General Hospital in 1919 and 1920, and resident physician there the following year; practiced in Alexandria, South Dakota, from 1921 to 1922, and entered The Mayo Foundation July 1, 1922 as a fellow in medicine. He was on leave of absence from December 20, 1922 to March 6, 1923. His services to January 1, 1926 included three years and three months of general diagnosis. He is a member of Olmsted County Medical Society, the Minnesota State Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Phi Rho Sigma. He married Elinora Westcott July 3, 1921. His address is Rochester, Minnesota.

Charles K. Maytum

Mebane, Donald C., B.A., M.D., M.S. in Pediatrics, was born December 7, 1893 in Wilkes-Barre, Pennsylvania; received the degree of B.A. from Columbia University, New York, in 1918, of M.D. from the College of Physicians and Surgeons, Columbia University, in 1920, and of M.S. in Pediatrics from the University of Minnesota in 1924, and was intern at the Evanston Hospital, Evanston, Illinois, from 1920 to 1921. He entered The Mayo Foundation July 1, 1921 as a fellow in pediatrics; his services included pediatrics, two years and six months, nine months being at the Medical School, Minneapolis; dermatology and syphilology, six months, and pathologic anatomy, six months. He left The Mayo Foundation July 1, 1924 to practice in Toledo, Ohio, and is also on the pediatric staff of the Maternity and Children's Hospital in Toledo. He is a member of the Lucas County Medical Society, the Ohio State Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Frances E. Malm December 3, 1924. His address is Toledo Medical Building, 312 Michigan Street, Toledo, Ohio.



Donald C. Mebane

Bibliography.—1. The teeth in childhood. Am. Jour. Dis. Child., 1924, xxvii, 219–229.

2. The examination of the school children of Olmsted County. Am. Jour. Pub. Health, 1924, xiv, 662–672.

3. Mongolian idiocy with teeth of Hutchinson's type. Report of case. Am. Jour. Dis. Child., 1924, xxviii, 438–439.

4. The significance of the presence of the nephrogenic zone of the kidney in the normal and the syphilitic fetus and the newborn. Am. Jour. Dis. Child., 1924, xxviii, 668–677.

5. Over 75 per cent of Olmsted County children defective. Excellent remedial work carried out as a result of examinations. Northwest. Health Jour., 1925, x, 22–23.

Meeker, William R., B.S., M.D., was born June 2, 1889 in Hazel Dell, Illinois; received the degree of B.S. from the University of Chicago in 1915, and of M.D. from Rush Medical College, University of Chicago, in 1920; was intern at Cook County Hospital, Chicago, from 1919 to 1920; was medical director in the City Hospital, Little Rock, Arkansas, and professor of pathology, University of Arkansas, from 1920 to 1921. He came to the Mayo Clinic June 1, 1921 as head of the Section on Regional Anesthesia, and retained this position until October 1, 1923. His service then included orthopedic surgery, six months, and operative surgery, three months. He left the Mayo Clinic July 1, 1924, and was assistant professor of surgery at the University of Illinois and practiced in Chicago until September, 1925, when he went to Mobile, Alabama, where he is now associated with Dr. E. B. Frazer in the practice of surgery. He is a member of the Institute of Medicine (Chicago) and the American Medical Association, and is a diplomate of the National Board of Medical Examiners. His address is Southern Infirmary, Spring Hill Avenue and Ann Street, Mobile, Alabama.

William R. Meeker

Bibliography.—1. Angina pectoris. Jour. Am. Med. Assn., 1918, lxx, 969–974. (With E. F. Ingals.)
2. Inguinal herniotomy under regional anesthesia. Surg., Gynec., and Obst., 1922, xxxiv, 398–403.
3. Surgery of the scrotum and its contents under regional anesthesia. Jour. Urol., 1922, viii, 61–73.
4. Transsacral nerve block anesthesia in surgery of the pelvic floor and its viscera. Surg., Gynec., and Obst., 1922, xxxv, 801–812. (With E. B. Frazer.)
5. The use of paravertebral nerve block anesthesia in general surgery. Minn. Med., 1923, vi, 138–154.
6. The value of sacral nerve block anesthesia in obstetrics. Jour. Am. Med. Assn., 1923, lxxxi, 1079–1083. (With B. E. Bonar.)
7. Regional anesthesia in gynecology and obstetrics. Surg., Gynec., and Obst., 1923, xxxvii, 816–840. (With B. E. Bonar.)
8. The comparative toxicity of novocain, neocain, procain, and apothesin: the effect of intravascular injections. Jour. Pharmacol. and Exper. Therap., 1923, xxii, 375–392. (With E. B. Frazer.)
9. Instrumentarium for local anesthesia. Ann. Surg., 1924, lxxix, 124–129.
10. Regional anesthesia in surgery of the prostate gland and bladder. Journal-Lancet, 1924, xliv, 1–6.
11. Local anesthesia in operations on the neck; a new method of cervical plexus block. Surg., Gynec., and Obst., 1924, xxxviii, 806–818. (With H. W. Hundling.)
12. The value of sacral nerve block anesthesia in surgery of the prostate gland and bladder. Jour. Urol., 1924, xi, 395–413. (With E. S. Judd.)

13. Sacral nerve block anesthesia, the anatomy involved, technic, and clinical application. Ann. Surg., 1924, lxxx, 739–772. (With A. J. Scholl.)
14. Anesthesia at the Mayo Clinic. Brit. Jour. Anesthesia, 1924, ii, 13–35. (With Mary Hines.)
15. Splanchnic anesthesia: an analysis of forty-two cases. Arch. Surg., 1925, x, 699–719.
16. The potentiation of novocain solutions. Jour. Lab. and Clin. Med., 1925, xi, 139–162.

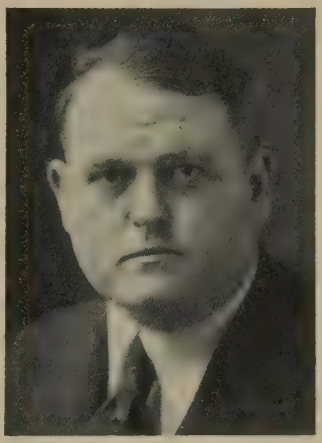
Meisser, John G., D.D.S., was born November 10, 1893 in Arcadia, Wisconsin; received the degree of D.D.S. from the University of Minnesota in 1919, and entered The Mayo Foundation July 11, 1919 as a special student in dental surgery. His services included dental surgery, twenty-six and one-half months, and bacteriology, fifteen months. After six months' service he was appointed first assistant in the Section on Dental Surgery, Mayo Clinic, and associate April 1, 1920. He left The Mayo Foundation April 1, 1924, and is now practicing dentistry in Cleveland, Ohio. He is a member of the Ohio State Dental Association, the Northern Ohio Dental Association, the American Dental Association, Omega Eta Mu, and Sigma Xi, and an associate member of the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Ella Knoop May 28, 1921. His address is 1322 Hanna Building, Cleveland, Ohio.

John G. Meisser

Bibliography.—1. Focal infections in relation to submucous ulcer of the bladder and to cystitis. Jour. Urol., 1921, vi, 285–298. (Discussion 299–301.) (With H. C. Bumpus, Jr.)
2. Focal infection and selective localization of streptococci in pyelonephritis. Study I. Arch. Int. Med., 1921, xxvii, 326–337. (With H. C. Bumpus, Jr.)
3. Foci of infection in cases of pyelonephritis. Study II. Jour. Am. Med. Assn., 1921, lxxvii, 1475–1478. (With H. C. Bumpus, Jr.)
4. Elective localization of bacteria isolated from infected teeth. Jour. Nat. Dental Assn., 1922, xix, 578–592. (With B. S. Gardner.)
5. Nephritis and urinary calculi following the experimental production of chronic foci of infection: Preliminary report. Jour. Am. Med. Assn., 1922, lxxviii, 266–267. (With E. C. Rosenow.)
6. Elective localization of bacteria following various methods of inoculation, and the production of nephritis by devitalization and infection of teeth in dogs. Jour. Lab. and Clin. Med., 1922, vii, 707–722. (With E. C. Rosenow.)
7. Dentistry and its relation to preventive medicine. Dent. Sum., 1923, xliii, 5–14.
8. The production of urinary calculi by the devitalization and infection of teeth in dogs with streptococci from cases of nephrolithiasis. Arch. Int. Med., 1923, xxxi, 807–829. (With E. C. Rosenow.)
9. Focal infection as a cause of diseases of the urinary tract. Jour. Am. Dent. Assn., 1923, x, 610–618.

10. A clinical and experimental study in chronic arthritis. Jour. Am. Dent. Assn., 1923, x, 1100–1110. (With S. Brock.)
11. Further studies on elective localization of bacteria from infected teeth. Jour. Am. Dent. Assn., 1925, xii, 554–565.

Mellen, Dan H. S., M.D., F.A.C.S., was born December 3, 1889 in Oswego, New York; took premedical courses at the University of Rochester, New York; received the degree of M.D. from the University of Buffalo, New York, in 1918, and was intern at Rome Hospital, Rome, New York, for fifty-two weeks. He entered The Mayo Foundation July 1, 1918 as a special student in surgery; his services included surgery, sixteen months; orthopedic diagnosis, three months; general diagnosis, fourteen months, and urology (Medical School, Minneapolis), three months. He left The Mayo Foundation July 5, 1921, and is practicing surgery in Rome, New York. He is a member of the Oneida County Medical Society, the Medical Society of the State of New York, the American Medical Association, the American College of Surgeons, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. His address is Rome, New York.



Dan H. S. Mellen

Bibliography.—1. Bilateral cystocele or cystic dilatation of the lower end of the ureters. Minn. Med., 1921, iv, 475–478. (With G. J. Thomas.)

Melson, Oliver C., B.A., M.D., was born October 8, 1891 in Conneaut, Ohio; received the degree of B.A. from Adelbert College, Western Reserve University, Cleveland, Ohio, in 1913, and of M.D. from Western Reserve University in 1916. He was assistant in surgical pathology in the Mayo Clinic from July 1, 1916 to 1918, when he entered military service as Captain, Medical Corps, A. E. F., and was stationed at Base Hospital 26. He returned to The Mayo Foundation May 1, 1919 as a fellow in surgery, but later transferred his major to medicine; his services included general diagnosis, seventeen months, and surgery, five months. He was associate in one of the sections on medicine, Mayo Clinic, from March 1, 1921 until September 17,

Oliver C. Melson

1925, when he left the Mayo Clinic to become head of the section on internal medicine and diagnosis at the Baptist State Hospital in Little Rock, Arkansas. He is a member of the Pulaski County Medical Society, the Arkansas Medical Society, the American Medical Association, the Osler Medical Historical Society, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Dr. Madeline A. Muldoon July 26, 1924. His address is Baptist State Hospital, Little Rock, Arkansas.

Bibliography.—1. Report of a case of bilocular uterus with carcinoma in the left horn. Med. Rec., 1920, xcvii, 604–606.
2. The diagnosis of cancer of the uterus. Minn. Med., 1923, vi, 110–112.
3. Report of three cases: adenocarcinoma of the ovary and tube with tuberculosis, fibromyoma in hernial sac, and solid carcinoma of the left ovary. Med. Clin. N. Amer., 1923, vii, 173–176. (With Leda J. Stacy.)

Mensing, Edmund H., M.D., was born July 21, 1886 in Milwaukee, Wisconsin; received the degree of M.D. from Northwestern University, Chicago, in 1909; was intern in the Michael Reese Hospital, Chicago, thirty-one months, from 1909 to 1912, working in the clinical laboratory from 1909 to 1910; practiced medicine in Milwaukee, and was demonstrator in the physiological laboratory, Marquette University Medical School, from 1912 to 1914, and in the coroner's laboratory, Milwaukee, one year during that time. He entered The Mayo Clinic April 1, 1914 as a fellow in surgery; his services included surgical pathology, six months; operative surgery, one year; urology, six months, and general diagnosis, six months. From May 23 to September 26, 1916 he served in the Medical Corps, A. E. F., in Germany. He left The Mayo Foundation January 21, 1917 to practice surgery in Milwaukee; he holds the rank of Lieutenant-Colonel as chief of the surgical service of a Reserve Base Hospital unit at the National Military Hospital in Milwaukee. He is a member of the Milwaukee Academy of Medicine, the Milwaukee County Medical Society, the State Medical Society of Wisconsin, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Katherine M. MacGillis July 10, 1918. His address is 445 Milwaukee Street, Milwaukee, Wisconsin.

Edmund H. Mensing

Bibliography.—1. The Ehrlich-hata (606) preparation. Review of the literature relating to the new treatment of syphilis, with summary of results. Chicago Med. Recorder, 1910, xxxii, 661–669.
2. The relation between chronic mastitis and carcinoma of the breast. St. Paul Med. Jour., 1916, xviii, 164–167. (With W. C. MacCarty.)
3. Report of two cases of anthrax. Wisconsin Med. Jour., 1917–1918, xvi, 442.
4. Splenectomy for congenital hemolytic jaundice. Wisconsin Med. Jour., 1921–1922, xx, 85. (With M. F. Rogers.)
5. Insulin—glucose in treatment of surgical shock and nondiabetic acidosis. Surg., Gynec., and Obst., 1925, xl, 548–555. (With D. Fisher.)
6. Unusual complication following the usual operative procedure for varicose veins. Jour. Am. Med. Assn., 1925, lxxxiv, 728—729. (With D. Fisher.)

Mentzer, Stanley H., M.D., was born April 9, 1897 in San Francisco, California; received the degree of M.D. from the University of California in 1923; interned at St. Luke's Hospital, San Francisco, from 1922 to 1923, and entered The Mayo Foundation July 15, 1923 as a fellow in surgery. His services to July 1, 1926 included pathologic anatomy, one year; general diagnosis, one year; orthopedic surgery, three months, and operative surgery, nine months. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the California Medical Association, the Osler Medical Historical Society, the Association of International Museums, the American Medical Association, Tau Kappa Epsilon, Phi Chi, and Sigma Xi. His address is 617 Physicians' Building, San Francisco, California.

Stanley H. Mentzer

Bibliography.—1. Cholesterosis of the gallbladder. Am. Jour. Path., 1925, i, 383–388.
2. Methods of preparing gallbladders and clinical calculi for study and museum display. Bull. Internat. Assn. Med. Museums, 1925, xi, 37–40.
3. The pathogenesis of biliary calculi. California and West. Med., 1926. (In press.)
4. Cytologic changes in the mucosa of the gallbladder and associated factors noted at necropsy. Am. Jour. Path., 1926. (In press.)
5. A clinical and pathologic study of cholecystitis and cholelithiasis. Surg., Gynec., and Obst., 1926. (In press.)

Menzies, Percival K., B.A., M.B., F.A.C.S., was born June 18, 1886 in Ailsa Craig, Ontario; received the degree of B.A. in 1908, and of M.B. in 1910, from the University of Toronto; was Fellow in Pathology, University of Toronto, from June, 1910 to March, 1911; intern in the Hospital for Sick Children, Toronto, from March, 1911 to June, 1912, and in the Hospital for the Ruptured and Crippled Children, New York City, from June, 1912 to June, 1913. He entered the Mayo Clinic in June, 1913 as a fellow in surgery; his services included surgery, twelve months, and experimental surgery, urology, and roentgenology, five months (part time) during the same period. He left the Mayo Clinic in July, 1914. Between August 5, 1914 and November 15, 1920 he served with the Canadian Army Medical Corps in France, England, and Canada. He was promoted from the rank of Captain to Major, and finally to that of Lieutenant-Colonel. Since November, 1920 he has been a member of the surgical staff of the Syracuse Clinic, Syracuse, New York. He is a member of the Syracuse Academy of Medicine, the Onondaga County Medical Society, the Medical Society of the State of New York, American College of Surgeons, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Olive M. Campbell June 4, 1918. His address is Physicians' Building, Syracuse, New York.

Percival K. Menzies

Bibliography.—1. Tumors of the cerebellum. New York Med. Jour., 1923, cxviii, 441–444.

Merrill, E. Forrest, M.D., was born March 16, 1896 in Joliet, Illinois; received the degree of M.D. in 1920 from the University of Michigan, Ann Arbor, Michigan; was intern at the University of Michigan Hospital for two years, and instructor in roentgenology at the University from July, 1922 to March 1, 1924, when he came to the Mayo Clinic as first assistant in the Section on Roentgen Therapy. He left the Mayo Clinic October 1, 1925 to become roentgenologist at the Rochester General Hospital, Rochester, New York. He is a member of the Genesee County Medical Society, the Medical Society of the State of New York, the American Medical Association, the Radiological Society of North America, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Chi Phi, and Phi Beta Pi. He married Helen G. Cliff June 4, 1923. His address is Rochester General Hospital, Rochester, New York.

E. Forrest Merrill

Bibliography.—1. The Van Zwaluwenburg type of stereoscope. Am. Jour. Roentgenol., 1922, ix, 742–744. (With S. W. Donaldson.)

2. Pulmonary involvement in nonpulmonary tuberculosis. Am. Rev. Tuberc., 1922, vi, 677–683. (With J. G. Van Zwaluwenburg and A. D. Wickett.)

3. The value of the roentgen ray in cardiac diagnosis. Am. Jour. Med. Sc., 1923, clxv, 340–356. (With F. N. Wilson.)

4. Calcification of the pericardium; report of case described roentgenologically during life. Jour. Am. Med. Assn., 1924, lxxxii, 1833–1838. (With J. B. Youmans.)

Merrill, Urban H., B.A., M.D., M.S. in Ophthalmology, was born May 1, 1894 in Woburn, Massachusetts; received the degree of B.A. in 1916, and of M.D. in 1920 from Bowdoin College, Brunswick, Maine, and of M.S. in Ophthalmology in 1924 from the University of Minnesota, and was intern at the Lawrence General Hospital, Lawrence, Massachusetts, from July, 1920 to July, 1921. He entered The Mayo Foundation July 1, 1921 as a fellow in ophthalmology; his services included Student's Health Service (Medical School), one year, and ophthalmology, two years. He left The Mayo Foundation July 1, 1924, and is now practicing ophthalmology, otolaryngology, and rhinology in Ellensburg, Washington. He is a member of the Yakima

Urban H. Merrill

County Medical Society and the Washington State Medical Association. He married Arvilla D. Todd June 11, 1921. His address is Smithson Building, Ellensburg, Washington.

Bibliography.—1. Anomalous spiral looping of a retinal vein. Am. Jour. Ophth., 1924, vii, 177–179. (With H. P. Wagener.)

Meyerding, Henry W., B.S., M.D., M.S. in Orthopedic Surgery, F.A.C.S.; was born September 5, 1884 in St. Paul, Minnesota; received the degree of B.S. in 1907, of M.D. in 1909, and of M.S. in Orthopedic Surgery in 1918, from the University of Minnesota. He was intern at the St. Peter State Hospital, St. Peter, Minnesota, from June to September, 1908, at the City and County Hospital, St. Paul, from June, 1909 to December, 1910, and at St. Mary's Hospital, Rochester, Minnesota, from March, 1910 to March, 1911. After the completion of his internship at St. Mary's he was appointed assistant in the Section on Orthopedic Surgery at the Mayo Clinic, and is now associate in this section. He is associate professor of orthopedic surgery, The Mayo Foundation, Graduate School, University of Minnesota. He was a member of the National Guard from 1904 to 1913. During the war he was Lieutenant, Medical Reserve Corps, U. S. A., and an instructor in orthopedics in the Officers' School of Surgery, Rochester, Minnesota, and is now Major in the Medical Reserve Corps, U. S. A., 89th Division. He is a member of the Olmsted County Medical Society, the Southern Minnesota Medical Association, the Minnesota State Medical Association, the American Association for the Advancement of Science, the American Medical Association, the American College of Surgeons, the Association of Military Surgeons, the Clinical Orthopedic Society, the American Orthopedic Society, the Society of Endocrinology, the Tri-State Medical Society, the Radiological Society of North America, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Sigma Xi, and Alpha Kappa Kappa. He married Lura A. Stinchfield February 12, 1912. His address is Rochester, Minnesota.

Henry W. Meyerding

Bibliography.—1. A simple operating mallet. Jour. Am. Med. Assn., 1915, lxv, 1181.
2. An apparatus to assist in the application of dressings about the hip. Jour. Am. Med. Assn., 1915, lxiv, 240.
3. Diagnosis and treatment of tuberculous arthritis of the hip-joint. Minn. Med., 1918, i, 291–295.

4. Cystic and fibrocystic disease of the long bones. Am. Jour. Orthop. Surg., 1918, xvi, 253–276, 367–382.
5. Chondromas. Jour. Orthop. Surg., 1920, ii, 77–91.
6. The treatment of tuberculosis of the spine. Minn. Med., 1920, iii, 245–251.
7. Delayed union and non-union of the radius and ulna. Minn. Med., 1921, iv, 223–228.
8. Congenital torticollis. Jour. Orthop. Surg., 1921, iii, 91–97.
9. I. Hemorrhagic cyst of the upper left femur. II. Hemorrhagic cyst of the upper right femur. III. Osteomalacia. IV. Non-union of the left tibia associated with syphilis. V. Periosteal sarcoma involving the right knee-joint. Surg. Clin. N. Amer., 1921, i, 1493–1502.
10. Sarcoma of the long bones. A study of microscopically proved cases. Surg., Gynec., and Obst., 1922, xxxiv, 321–332.
11. The value of the roentgen ray in the diagnosis and prognosis of sarcoma of the long bones. Jour. Bone and Joint Surg., 1923, v, 323–330.
12. Fractures of the hip. (Editorial.) Surg., Gynec., and Obst., 1924, xxxviii, 417–418.
13. The non-operative treatment of recent fractures of the femur. Minn. Med., 1924, vii, 237–247.
14. *x*-Ray findings in bone tumors: exostosis, chondromas, bone cysts, osteitis fibrosa cystica, giant-cell tumors. Radiology, 1924, iii, 216–221.
15. Benign foreign-body giant-cell tumors in the long bones. Jour. Am. Med. Assn., 1924, lxxxiii, 1323–1329.
16. Roentgenographic types of sarcoma of the long bones. Radiology, 1924, iii, 457–463.
17. Multiple myeloma. Radiology, 1925, v, 132–146.
18. Surgical treatment of chronic lesions of the bone. Surg. Clin. N. Amer., 1925, v, 709–720.
19. Bone tumors. Minn. Med., 1925, viii, 628–633.
20. Metastasis to the bones from carcinoma of the breast: a roentgenologic study. Radiology, 1925, v, 486–489. (With J. D. Garvin and R. D. Carman.)

Miller, Albert, B.A., M.D., was born October 15, 1867 in Posey County, Indiana; received the degree of B.A. from Indiana University, Bloomington, in 1888, and of M.D. from Marion-Sims College of Medicine, St. Louis, in 1900; was intern in the St. Louis City Hospital from June, 1900 to May, 1901, and practiced medicine in St. Louis from 1901 to 1905, and in East St. Louis from 1905 to 1912. January 1, 1913 he was appointed an assistant in the Section on Roentgenology, Mayo Clinic. He left the Clinic in April, 1918 and practiced medicine in East St. Louis until April 15, 1921, when he returned to the Clinic as associate in the Section on Roentgenology. He is a member of the Association of Resident and Ex-Resident Physicians of the Mayo Clinic and Beta Theta Pi. He married Myrtle M. Richardson June 20, 1906. His address is Rochester, Minnesota.

Albert Miller

Bibliography.—1. The roentgenologic determination of gastric motility. Arch. Int. Med., 1915, xvi, 406–428. (With R. D. Carman.)
2. The roentgen diagnosis of diseases of the alimentary canal. Philadelphia, Saunders, 1917, 558 pp. (With R. D. Carman.)
3. Occupational hazards of the radiologist, with special reference to changes in the blood. Radiology, 1924, iii, 408–419. (With R. D. Carman.)

Millet, Melvin C., was born September 22, 1868 in Racine, Minnesota; attended the State Normal School, Winona, Minnesota; received the degree of M.D. from the University of Minnesota in 1895; practiced at Dover, Minnesota, one year, and at Le Roy, Minnesota, with Dr. M. J. Hart, two years, and studied urology in London one year. In November, 1898 he was appointed a member of the staff of the Mayo Clinic, and took charge of the work in urology until his death. He married Mary Frick June 12, 1901. He died at Rochester May 7, 1907.

Melvin C. Millet

Bibliography.—1. Foreign body in the urinary bladder, with report of two cases. Northwest. Lancet, 1903, xxiii, 5.
2. Gastric ulcer, etiology, symptomatology, and diagnosis. St. Paul Med. Jour., 1903, v, 191–197.
3. Locating surgical kidney lesions. Northwest. Lancet, 1904, xxiv, 257–259.
4. The diagnostic significance of pus in the urine. St. Paul Med. Jour., 1904, vi, 833–839.
5. A simple method of cystoscopy. Jour. Am. Med. Assn., 1904, xliii, 1123.
6. Tubercular kidney disease. St. Paul Med. Jour., 1905, vii, 763–769; Northwest. Lancet, 1906, xxvi, 1–4.
7. A case of ureteral calculus. Northwest. Lancet, 1905, xxv, 93.
8. Gastric ulcer. Northwest. Lancet, 1906, xxvi, 505–507.
9. The practical utility of cystoscopy. Northwest. Lancet, 1906, xxvi, 136–139.

Minier, Helen H., B.A., was born January 21, 1896 in Oakland, Nebraska; received the degree of B.A. in 1920 from the University of Nebraska, and entered The Mayo Foundation October 7, 1920 as a fellow in bacteriology. After six months of service in bacteriology, and six months in parasitology, she left The Mayo Foundation to teach biology. She is a member of Kappa Kappa Gamma. Her address is 1016 Shoshone Street, Twin Falls, Idaho.

Helen H. Minier

Mitchell, Joseph I., M.D., M.S. in Orthopedic Surgery, was born September 25, 1895 in Memphis, Tennessee; attended the University of St. Louis during 1914 and 1915, and received the degree of M.D. from the University of Tennessee in 1919, and of M.S. in Orthopedic Surgery from the University of Minnesota in 1924. He entered The Mayo Foundation in August, 1919 as a special student in orthopedics, and was later made a fellow in orthopedics; his services included orthopedic diagnosis, eight months; neurology, six months, and orthopedic surgery, two years and nine months. He left The Mayo Foundation June 23, 1923, and is now associated with the Campbell Clinic at Memphis. He is a member of the Memphis and Shelby County Medical Society, the Tennessee State Medical Association, the Clinical Orthopedic Society, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Phi Chi. He married Jessie Luley December 19, 1924. His address is the Campbell Clinic, 869 Madison Avenue, Memphis, Tennessee.

Joseph I. Mitchell

Bibliography.—1. The residual paralysis and deformity of anterior poliomyelitis. Jour. Bone and Joint Surg., 1925, vii, 619–629.

Moench, L. Mary, B.A., M.D., M.S. in Medicine, was born September 30, 1891 in Cattarengus, New York; received the degree of B.A. from Wellesley College, Massachusetts, in 1914, of M.D. from Johns Hopkins University, Baltimore, in 1919, and of M.S. in Medicine from the University of Minnesota in 1924, and was intern at the Bellevue Hospital, New York City, from 1919 to 1920. She entered The Mayo Foundation in November, 1920 as a fellow in medicine; her services included general diagnosis, twenty-two months, and experimental bacteriology, one year. She left The Mayo Foundation September 1, 1923, and for two years was connected with the medical staff of Smith College, Northampton, Massachusetts. She returned to the Mayo Clinic July 1, 1925 as first assistant in one of the sections on medicine, and was appointed associate January 1, 1926. She is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. Her address is Rochester, Minnesota.

L. Mary Moench

Bibliography.—1. The relationship of chronic endocervicitis to focal infection, with special reference to chronic arthritis. Jour. Lab. and Clin. Med., 1924, ix, 289–309.
2. Analysis of the fecal flora in thirty-three cases of pernicious anemia, with particular reference to B. welchii. Jour. Infect. Dis., 1925, xxxvii, 161–180. (With M. C. Kahn and J. C. Torrey.)

Moersch, Frederick P., B.S., M.D., was born March 28, 1889 in St. Paul; received the degree of B.S. in 1911, and of M.D. in 1913, from the University of Minnesota; was intern in the University of Minnesota Hospital, Minneapolis, from 1913 to 1914; practiced and was clinical assistant in neurology and psychiatry in Minneapolis from 1914 to 1917; served as Captain in the Medical Corps from 1917 to 1919, and was an assistant in the Psychopathic Hospital, Ann Arbor, Michigan, from 1919 to 1920. He was appointed first assistant in the Section on Neurology, Mayo Clinic, July 1, 1920, and an associate April 1, 1921. He is an instructor in neurology, The Mayo Foundation, Graduate School, University of Minne-

Frederick P. Moersch

sota, and also holds a fellowship in neurology. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the Southern Minnesota Medical Association, the Minnesota Neurological Society, the American Psychiatric Association, the Central Neuropsychiatric Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Alpha Kappa Kappa, and Sigma Xi. He married Agnes Dreis July 15, 1919. His address is Rochester, Minnesota.

Bibliography.—1. The constitutional psychopathic states. Journal-Lancet, 1918, xxxviii, 507–511.
2. Psychopathic army work (a letter). Journal-Lancet, 1918, xxxviii, 49.
3. A case of Raynaud's disease associated with scleroderma. Jour. Am. Med. Assn., 1919, lxxiii, 1835–1836.
4. Cerebellar agenesis with report of two cases. Jour. Nerv. and Ment. Dis., 1920, lii, 465–474.
5. Actinomycosis of the central nervous system. Arch. Neurol. and Psychiat., 1922, vii, 745–752.
6. Mycotic affections of the central nervous system. (Unpublished.)
7. Serology in brain tumors. Jour. Nerv. and Ment. Dis., 1923, lviii, 16–32.
8. Psychic manifestations in migraine. Am. Jour. Psychiat., 1924, iii, 697–716.
9. Psychic manifestations in cases of brain tumors. Am. Jour. Psychiat., 1925, iv, 705–724.
10. Diffuse glioma (gliosis): Report of two cases. Jour. Nerv. and Ment. Dis., 1926, lxiii, 343–351.

Moersch, Herman J., B.S., M.D., M.S. in Medicine, was born March 14, 1895 in St. Paul, Minnesota; received the degree of B.S. in 1918, of M.D. in 1921, and M.S. in Medicine in 1925, from the University of Minnesota, and was intern in the City and County Hospital, St. Paul, from September, 1920 to July, 1921, when he entered The Mayo Foundation as a fellow in neurology. His services have consisted of general diagnosis, three years and six months, and neurology, one year. He was appointed first assistant in one of the sections on medicine, Mayo Clinic, January 1, 1924, and an associate January 1, 1926. He is an instructor in medicine, The Mayo Foundation, Graduate School, University of Minnesota. He is a member of the Olmsted County Medical Society (Minnesota), the Minnesota State Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Charline Buck September 26, 1925. His address is Rochester, Minnesota.

Herman J. Moersch

Bibliography.—1. Comparison of constants for the determination of vital capacity. Arch. Int. Med., 1924, xxxiii, 118–127. (With W. S. Lemon.)
2. Vital capacity in relation to operative risk. Arch. Int. Med., 1924, xxxiii, 128–129. (With W. S. Lemon.)
3. Basal metabolism and vital capacity. Arch. Int. Med., 1924, xxxiii, 130–135. (With W. S. Lemon.)
4. Factors influencing vital capacity. Arch. Int. Med., 1924, xxxiii, 136–144. (With W. S. Lemon.)
5. Dilation versus gastrostomy as a palliative treatment of carcinoma of the esophagus. Jour. Am. Med. Assn., 1925, lxxxiv, 658–659. (With P. P. Vinson.)
6. Severe burn of mouth from the accidental ingestion of granulated lye. Laryngoscope, 1925, xxxv, 127–128. (With P. P. Vinson.)
7. The vital capacities of one thousand patients. Arch. Int. Med., 1926, xxxvii, 128–143.
8. Expectant treatment of foreign bodies in the stomach. Minn. Med., 1926, ix, 95–97. (With P. P. Vinson.)

Montgomery, Hamilton, A.B., M.D., was born May 21, 1898 in Chicago, Illinois; received the degree of A.B. in 1918, and of M.D. in 1922, from Harvard University; was intern at the Presbyterian Hospital, Chicago, from January, 1923 to January, 1924, and had the Hyde Memorial Fellowship in dermatology at Rush Medical College the following year. He entered The Mayo Foundation January 1, 1925 as a second-year fellow in dermatology, and his service to January 1, 1926 included one year in the Section on Dermatology. From April, 1917 to November, 1918 he was first-class seaman, U.S.N.R.F. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, and Nu Sigma Nu. He married Beatrice A. Jennison June 19, 1924. His address is Rochester, Minnesota.

Hamilton Montgomery

Moore, Alexander B., M.D., F.A.C.P., was born November 8, 1883 in Aldie, Virginia; received the degree of M.D. from the University of Virginia in 1907; was intern in St. Joseph's Hospital, Tacoma, Washington, sixteen months, and in the University Hospital, Charlottesville, Virginia, six months, and practiced medicine in The Plains, Virginia, from January, 1909 to December, 1910, when he was appointed an associate in the Section on Roentgenology, Mayo Clinic. He is associate professor of roentgenology, The Mayo Foundation, Graduate School, University of Minnesota. From August, 1917 to March, 1919 he served as Captain in the Medical Corps. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the American Medical Association, the American Roentgen Ray Society, the Radiologic Society of North America, the American College of Physicians, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Carolyn W. Watson June 19, 1909. His address is Rochester, Minnesota.

Alexander B. Moore

Bibliography.—1. The *x*-ray in the examination of the kidneys and ureter. Jour. Minn. Med. Assn., 1911, xxxi, 515–517.
2. Radiography in the diagnosis of pulmonary tuberculosis. Interstate Med. Jour., 1914, xxi, 326–329.
3. Stones in the ureter. Jour. Am. Med. Assn., 1915, lxv, 1234–1237. (With W. F. Braasch.)
4. Radiographic diagnosis of metastatic pulmonary malignancy: a report of seventy-one positive cases. Am. Jour. Roentgenol., 1916, iii, 126–131. Discussion 133–138. (With R. D. Carman.)
5. Roentgen diagnosis of bronchiectasis. Am. Jour. Roentgenol., 1916, iii, 524–531.
6. A roentgenologic study of metastatic malignancy of the bones. Am. Jour. Roentgenol., 1919, vi, 589–593. (With R. D. Carman.)
7. Further observations on the roentgen diagnosis of bronchiectasis. Am. Jour. Roentgenol., 1925, xiii, 527–529. (With W. J. Marquis.)
8. The roentgenologic diagnosis of gastrojejunal ulcer. Am. Jour. Roentgenol., 1925, xiv, 432–435. (With W. J. Marquis.)

Moore, Edward C., M.D., was born January 20, 1882 in South Bend, Indiana; attended Notre Dame University, Indiana, from 1896 to 1897; received the degree of M.D. from the University of California in 1904; was intern in the Los Angeles County Hospital, California, one year, and practiced in Los Angeles four years. He entered the Mayo Clinic in April, 1909; his services included general diagnosis, six months, and surgery, six months. He returned to Los Angeles in April, 1910 to practice surgery. During the war he served as Major and consulting surgeon in the Medical Corps, A. E. F., stationed at Base Hospital 26. He is a member of the Clinical and Pathological Society of Los Angeles, the Los Angeles County Medical Society, the California Medical Association, the Western Surgical Association, the American Urological Association, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Helen Rowland in 1906. His address is 1005 Merchants National Bank Building, Los Angeles, California.

Edward C. Moore

Bibliography.—1. The diagnosis of duodenal ulcer. South. California Pract., 1911, xxvi, 61–66.

2. The diagnosis and surgical treatment of tuberculosis of the kidney, with report of cases. Calif. State Jour. Med., 1911, ix, 243–249.

3. A year's experience with pericolic membranes. Arizona Med. Jour., 1913–1914, ii, 7–11.

4. The child in modern society. School and Soc., 1915, ii, 253–259.

5. Duodenal diverticula, with report of a case. Arch. Surg., 1920, i, 513–523.

6. A case of abdominal pregnancy with living child. Surg., Gynec., and Obst., 1921, xxxiii, 65–67. Also: Lancet, 1921, ii, 244.

7. Intra-abdominal hemorrhage from ruptured corpus luteum. Ann. Surg., 1922, lxxv, 492–500.

8. The history of diseases of the thyroid and development of their surgery. Southwestern Med., 1922, vi, 319–325.

9. Esophageal diverticula. Calif. and West. Med., 1925, xxiii, 299–301.

Moore, Thomas D., B.A., M.D., M.S. in Urology, was born August 27, 1894 in Hopkinsville, Kentucky; received the degree of B.A. from McLean College, Hopkinsville, in 1912, of M.D. from Vanderbilt University, Nashville, Tennessee, in 1916, and of M.S. in Urology from the University of Minnesota in 1923; was intern in the Willard Parker Hospital, New York City, from July to December, 1916, and in the Madison General Hospital, Madison, Wisconsin, from December, 1919 to March, 1920, and from January, 1917 to August, 1918 was surgeon for the Anglo-Newfoundland Development Company, Grand Falls, Newfoundland. During the war he served as First Lieutenant in the Medical Corps, U. S. A., stationed at Camp Devens, Massachusetts, and at Plattsburg, New York. He entered The Mayo Foundation March 10, 1920 as a fellow in medicine, but transferred his major to urology in January, 1922; his services included pathologic anatomy, seven months; dermatology and syphilology, three months; general diagnosis, six months; neurology, three months; medical hospital residence, three months; urology, one year; operative surgery, nine months, and surgical pathology, three months. He left The Mayo Foundation January 1, 1924, and is practicing urology and urologic surgery at the Polyclinic, Memphis, Tennessee. He is a member of the Memphis and Shelby County Medical Society, the Memphis Urological Society, the Tennessee State Medical Association, the Tri-State Medical Association, the West Tennessee Medical and Surgical Association, the American Urological Association, the American Medical Association, the Osler Medical Historical Society, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Theta Kappa Psi. He married Ruth F. Brown March 18, 1925. His address is 20 South Dunlap Street, Memphis, Tennessee.

Thomas D. Moore

Bibliography.—1. A history of the development of urology as a specialty. Jour. Urol., 1923, x, 99–120.

2. Bladder sensibility. Arch. Surg., 1924, ix, 176–187.

3. Conditions governing the advisability of prostatectomy. Jour. Tennessee Med. Assn., 1924, xvii, 251–256.

4. The value of the urologist in surgical diagnosis. Memphis Med. Jour., 1924, i, 261–265.

Moran, Robert E., B.S., M.D., was born May 19, 1896 in Washington, D. C.; received the degree of B.S. in 1918, and of M.D. in 1920, from Georgetown University, Washington, D. C.; was intern in St. Vincent's Hospital, New York, from June to September, 1918, and in the Columbia Hospital, Washington, D. C., from June, 1920 to June 1921. He entered The Mayo Foundation in July, 1921 as a fellow in medicine; his services included pathologic anatomy, six weeks; general diagnosis, sixteen and one-half months, surgical pathology, three months, and operative surgery, fifteen months. He left The Mayo Foundation July 1, 1924, and is now practicing in Washington, D. C. He is a member of the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. His address is 1532 Sixteenth Street Northwest, Washington, D. C.

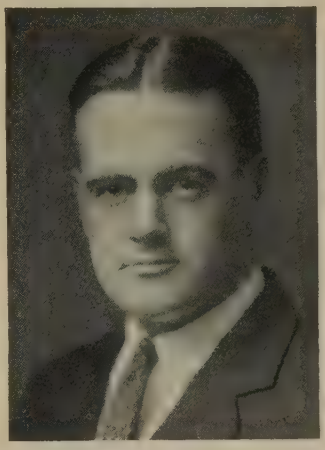
Robert E. Moran

Morse, Harry D., C.M., M.D., M.S. in Urology, was born October 21, 1893 in Berwick, Nova Scotia; received the degree of C.M. and of M.D. in 1918 from McGill University, and of M.S. in Urology in 1925 from the University of Minnesota; was in the Royal Navy from April, 1918 to December, 1919; was intern at the Montreal General Hospital in 1920 and 1921, and was with the Massachusetts-Halifax Health Commission in Halifax from May, 1921 to July 1, 1922, when he entered The Mayo Foundation as a fellow in urology. His services included pathologic anatomy, six months; dermatology and syphilology, six months; urology, twenty-one months, and operative surgery, six months. He left The Mayo Foundation October 1, 1925, to practice urology in Winnipeg, Manitoba. He is a member of the American Medical Association, the American Urological Association, the Medical Council of Canada, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Theta Delta Chi. His address is 511 Boyd Building, Winnipeg, Manitoba, Canada.

Harry D. Morse

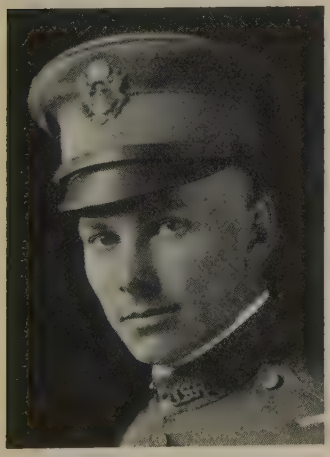
Bibliography.—1. Urinary and prostatic calculi. Surg. Clin. N. Amer., 1925, v, 655–672. (With E. S. Judd and B. R. Parker.)
2. Primary papillary epithelioma of the ureter: report of a case. Can. Med. Assn. Jour., 1925, xv, 902–904.
3. Studies in the etiology of pyelitis, ureteritis, and cystitis cystica. (Unpublished thesis, 1925.)
4. Carcinoma of the male breast. Surg., Gynec., and Obst., 1926, xlii, 15–18. (With E. S. Judd.)

Morton, Charles B., B.S., M.D., was born January 10, 1900 in Rappahannock, Virginia; received the degrees of B.S. in 1920 and M.D. in 1922 from the University of Virginia, Charlottesville, Virginia; interned at St. Luke's Hospital, New York City, from July, 1922 to July, 1924, and entered The Mayo Foundation September 1, 1924 as a fellow in surgery. His services to January 1, 1926 included general diagnosis, four months, and experimental pathology, one year. He was appointed first assistant in the Division of Experimental Surgery and Pathology, The Mayo Foundation, October 1, 1925. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, Pi Kappa Alpha, Nu Sigma Nu, and Alpha Omega Alpha. He married Virginia Marshall January 30, 1925. His address is Rochester, Minnesota.



Charles B. Morton

Mosby, Hazel P., M.D., was born June 20, 1890 in Bardwell, Kentucky; received the degree of M.D. from the University of Louisville in 1910; was extern in the Augustana Hospital, Chicago, one year, and intern in Speer's Memorial Hospital, Dayton, Kentucky, one year, and practiced general medicine in Bardwell, Kentucky, from 1912 to 1913. He entered the Mayo Clinic March 1, 1914 as a special student in surgery; his services included surgery, twelve months; postoperative treatment, six months; general diagnosis, eight months; orthopedic diagnosis, six months; neurology, three months, and roentgenology, three months. He left The Mayo Foundation May 1, 1917 to join the staff of the Rockford Clinic, Rockford, Illinois. His specialty is internal medi-



Hazel P. Mosby

cine. He is a member of the Winnebago County Medical Society, the Illinois State Medical Association, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Selma P. Hoppe September 7, 1919. His address is the Rockford Clinic, Rockford, Illinois.

Muehlig, George F., B.S., M.D., was born August 1, 1888 in Ann Arbor, Michigan; received the degree of B.S. in 1910 and of M.D. in 1912 from the University of Michigan, and practiced in Ann Arbor from 1912 to 1918 as Associate to Dr. I. D. Loree. He entered The Mayo Foundation April 15, 1918 as a fellow in medicine; his service consisted of clinical diagnosis, three years. He left The Mayo Foundation March 1, 1921, and is now practicing internal medicine in Ann Arbor, Michigan. He is a member of the Washtenaw County Medical Society, the Michigan State Medical Association, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Alta M. Inman in 1910. His address is St. Joseph's Mercy Hospital, Ann Arbor, Michigan.

George F. Muehlig

Muhme, Norman B., M.D., was born February 3, 1896 in Toledo, Ohio; attended Ohio State University in 1914 and 1915, and later the University of Michigan, where he received the degree of M.D. in 1921, and was intern at the Toledo Hospital, Toledo, Ohio, from July, 1921 to July, 1922, and at the Rhode Island General Hospital, Providence, Rhode Island, from July, 1922 to January 1, 1923, when he entered The Mayo Foundation as a fellow in surgery. His services to January 1, 1926 included postoperative treatment, six months; general diagnosis, one year; neurologic surgery, six months, and operative surgery, one year, with part time (three months) in surgical pathology. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, and the Toledo Academy of Medicine. His address is 2551 Parkwood Avenue, Toledo, Ohio.

Norman B. Muhme

Murphy, Albert B., M.D., was born May 22, 1894 in Waltham, Massachusetts; attended Harvard University, Cambridge, Massachusetts, from 1913 to 1915; received the degree of M.D. from Tufts College, Medford, Massachusetts, in 1919; was intern in the Boston City Hospital from July, 1918 to July, 1919; was resident physician from 1919 to 1920, and medical director from 1920 to 1921 in Long Island Hospital, Boston. He entered The Mayo Foundation July 1, 1921 as a special student in otolaryngology; his services included laryngology, oral and plastic, one year, and otolaryngology and rhinology, two years and three months. He left The Mayo Foundation October 1, 1924, and is now in charge of the eye, ear, nose, and throat section of the Quigley Clinic at Everett, Washington. He is a member of the Massachusetts Medical Society, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. His address is Quigley Clinic, Everett, Washington.

Albert B. Murphy

Murphy, Leo T., B.S., M.B., M.D., was born September 15, 1892 in Minneapolis, Minnesota; received the degree of B.S. in 1918, of M.B. in 1919, and of M.D. in 1920 from the University of Minnesota, and was intern in the University of Minnesota Hospital from July, 1918 to July, 1919. He entered The Mayo Foundation August 1, 1919 as a fellow in surgery; his services included postoperative care, two months; general diagnosis, twelve months; neurology, six months, and surgery, fifteen months. He left The Mayo Foundation July 2, 1922 to become a member of the surgical staff of the Nicollet Clinic, Minneapolis. He is now practicing independently. He is a member of the Minneapolis Surgical Society, the Hennepin County Medical Society, the Southern Minnesota Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. His address is 401 La Salle Building, Minneapolis, Minnesota.

Leo T. Murphy

Murray, George A., B.A., M.D., February 17, 1885 in Boston; received the degree of B.A. from Boston College in 1909, and of M.D. from Harvard University, Cambridge, Massachusetts, in 1915, and was intern in the Boston City Hospital seventeen months, from 1915 to 1917. He entered The Mayo Foundation February 15, 1918 as a fellow in surgery; his services included surgery, eleven months, and general diagnosis, eleven months. He served in the Medical Corps from November, 1918 to November, 1919, treating osteomyelitis. He left The Mayo Foundation December 1, 1920 to establish a practice in Dorchester, Massachusetts. His address is 515 Broadway, South Boston, Massachusetts.

George A. Murray

Murray, James T., M.D.C.M., was born November 30, 1878 in Byron, Minnesota; attended the Academy of Lourdes, Rochester, Minnesota, and received the degree of M.D.C.M. from Hamline University, St. Paul, in 1907. He entered the Mayo Clinic July 1, 1907; his services included surgery, six months, and urology, seven months. He left the Mayo Clinic August 1, 1908 to practice general medicine and surgery at Los Angeles. He is a member of the Los Angeles County Medical Society, the Southern California Medical Society, the California Medical Association, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Grace E. Schilling December 20, 1910. His address is 412 West Sixth Street, Los Angeles, California.

Mussey, Robert D., M.D., was born January 10, 1884 in Glendale, Ohio; attended the University of Cincinnati six years, receiving the degree of M.D. in 1908; was intern in the Cincinnati General Hospital from May, 1908 to September, 1909, and receiving physician in the same institution from September, 1909 to June, 1910. He has been associated with the Mayo Clinic since July 1, 1910. He was intern at St. Mary's Hospital for one year; had charge of the out-patient dressing service from July 1, 1911 to April 1, 1912; was appointed an assistant in one of the sections in the Division of Medicine May 1, 1912; head of a section on clinical medicine April 1, 1916, and head of the Section on Obstetrics October 1, 1921. He is associate professor of obstetrics, The Mayo Foundation, Graduate School, University of Minnesota. From December 15, 1917 to May 1, 1919 he served as Major in the Medical Corps, A. E. F., stationed at Base Hospital 26. He is a member of the Olmsted County Medical Society, the Southern Minnesota Medical Association, the Minnesota State Medical Association, the American Medical Association, the American Association of Obstetricians, Gynecologists, and Abdominal Surgeons, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Madge Ayres May 28, 1912. His address is Rochester, Minnesota.

Robert D. Mussey

Bibliography.—1. The diagnosis of extra-uterine pregnancy: a study of 168 cases. St. Paul Med. Jour., 1914, xvi, 588–593.

2. Clinical observations on luetic disease of the heart and aorta. Journal-Lancet, 1915, xxxv, 688–693.

3. Surgical conditions complicating intra-uterine pregnancy. Am. Jour. Obst., 1918, lxxvii, 806–812.

4. Pancreatic carcinoma. Med. Clin. N. Amer., 1919, iii, 681–688.

5. The trend of modern diagnosis. Jour. Kansas Med. Soc., 1922, xxii, 167–170.

6. Certain general considerations of heart disease associated with pregnancy. Ann. Clin. Med., 1922, i, 56–58.

7. Uterine fibromyomas complicating pregnancy. Minn. Med., 1923, vi, 256–260.

8. Detachment of the retina in a case of pregnancy with nephritis. Reattachment and restoration of vision. Am. Jour. Ophthal., 1923, vi, 268–270. (With W. L. Benedict.)

9. Hypertension: an index to the toxemia of pregnancy. Minn. Med., 1924, vii, 583–586. (With L. M. Randall.)

10. Clinical similarity between eclamptic toxemia and acute glomerulonephritis. Am. Jour. Obst. and Gynec., 1925, ix, 808–819.

11. A clinical study of nephritis in cases of pregnancy. Surg., Gynec., and Obst., 1926, xlii, 342–350. (With R. Rockwood and N. M. Keith.)

12. Eclampsia, with unusual nonprotein nitrogen in the blood: report of a case. Am. Jour. Obst. and Gynec., 1925, x, 826–828.
13. Observations on the treatment of the edema of the toxemia of pregnancy with ammonium chlorid. Am. Jour. Obst. and Gynec., 1926, xi, 222–227.

Nagel, Gunther W., A.B., M.D., was born August 5, 1894 in Bingara, N. S. W., Australia; received the degree of A.B. in 1917, and of M.D. in 1921, from Stanford University, California; was assistant resident at the San Quentin Prison, San Quentin, California, for three months in 1920, and intern at the Lane Hospital, San Francisco, from July, 1920 to July, 1922, when he entered The Mayo Foundation as a fellow in surgery. His services to January 1, 1926 included pathologic anatomy, one year; general diagnosis, six months; orthopedics, three months, and operative surgery, twenty-one months. He was appointed resident surgeon at St. Mary's Hospital July 1, 1925. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the California Medical Association, the American Medical Association, Alpha Tau Omega, and Nu Sigma Nu. He married Eleanor Runckel June 9, 1926. His address is Rochester, Minnesota.

Gunther W. Nagel

Bibliography.—1. Results of the Wassermann test on 1518 men at the San Quentin prison. California State Jour. Med., 1921, xix, 193.
2. The etiology and importance of cystico-duodeno-colic fold. Surg., Gynec., and Obst., 1923, xxxvii, 365–372.
3. Right paraduodenal hernia. Jour. Am. Med. Assn., 1923, lxxxi, 907–912.
4. Unusual conditions in the duodenum and their significance (membranous obstruction of the lumen, diverticula, and carcinoma). Arch. Surg., 1925, xi, 529–549.

Nakamura, Tokukichi, M.D., was born January 1, 1886 in Yonago, Tottori Province, Japan; received the degree of M.D. in 1911 from the Imperial University of Tokyo; was assistant for one year in the pathological department, and two years in the surgical department of the Imperial University of Tokyo, and surgeon at St. Luke's Hospital in Tokyo from 1915 to 1922. He came to The Mayo Foundation June 15, 1922 as a Rockefeller Foundation fellow in surgery. After fifteen months of service in experimental bacteriology, with part time in surgical pathology for two months, he left The Mayo Foundation September 9, 1923, and returned to St. Luke's Hospital. He is a member of the Japanese Surgical Society, the Japanese Pathological Society, and the Japanese Society for Bacteriology and Hygiene. His address is St. Luke's Hospital, Tokyo, Japan.

Tokukichi Nakamura

Bibliography.—1. The bacteriology of extirpated tonsils and its relation to epidemic tonsillitis. Ann. Surg., 1924, lxxix, 24–28.

2. A study on focal infection and elective localization in ulcer of the stomach and in arthritis. Ann. Surg., 1924, lxxix, 29–43.

Nelson, Marque O., B.S., M.D., was born July 31, 1897 in St. Paul, Minnesota; received the degree of B.S. in 1921, and of M.D. in 1923, from the University of Minnesota; was intern at the Western Pennsylvania Hospital, Pittsburgh, from July to December, 1922, and at the Grasslands Hospital, Valhalla, New York, from December, 1922 to July, 1923, and was resident physician at the Bloomingdale Hospital, White Plains, New York, from July, 1923 to January 1, 1924, when he entered The Mayo Foundation as a fellow in medicine, but transferred his major to dermatology and syphilology July 1, 1925. His services to January 1, 1926 included general diagnosis, six months, and dermatology and syphilology, eighteen months. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, and the American Medical Association. He married Mabel Nelson October 24, 1925. His address is Rochester, Minnesota.

Marque O. Nelson

Bibliography.—1. Significance of normal spinal fluid in cases of neurosyphilis. Jour. Am. Med. Assn., 1925, lxxxv, 1276–1281. (With P. A. O'Leary.)

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Bibliography.—1. Postoperative hysterical hiccough. St. Paul Med. Jour., 1913, xv, 465.
2. Tumor of the middle cranial fossa involving the gasserian ganglion. Jour. Am. Med. Assn., 1914, lxii, 1082. (With W. A. Plummer.)
3. Cystic odontomas. Jour. Am. Med. Assn., 1915, lxiv, 34–39.
4. Prolapse of the ventricle of the larynx. Laryngoscope, 1915, xxv, 145–147.
5. Antrum trocar and irrigating cannula. Laryngoscope, 1915, xxv, 864.
6. Congenital diaphragm of the larynx. St. Paul Med. Jour., 1915, xvii, 100–104.
7. Bilateral parotid tumors. Collected Papers Mayo Clinic, Philadelphia, Saunders, 1915, vii, 37–51.
8. Fibrolipoma of the larynx. Jour. Am. Med. Assn., 1916, lxvi, 566–567.
9. Infections of the mouth. Journal-Lancet, 1916, xxxvi, 107–110.
10. Cystic odontomas. Dent. Sum., 1916, xxxvi, 777–787.
11. The relation of amebiasis to pyorrhea alveolaris. Surg., Gynec., and Obst., 1916, xxii, 27–33. (With A. H. Sanford.)
12. Radium in the treatment of lymphangioma of the tongue. Journal-Lancet, 1916, xxxvi, 699–701.
13. Blastomycosis of the tongue. Jour. Am. Med. Assn., 1917, lxviii, 186–188.
14. Cysts of the larynx. Journal-Lancet, 1916–1917, xxxvii, 99–102.
15. A water-cooled retractor for use with a cautery in the mouth. Jour. Am. Med. Assn., 1917, lxviii, 1252.
16. Adenoma of the palate. Ann. Otol., Rhinol., and Laryngol., 1916, xxv, 687–691.
17. Angioma and radium. Journal-Lancet, 1917, xxxvii, 445–448.
18. Ankylosis of the jaw. Surg., Gynec., and Obst., 1918, xxvii, 451–458. (With M. S. Henderson.)
19. The value of radium in the treatment of lesions of the eye, ear, nose, and throat. Canadian Med. Week., 1918, October.
20. The effect of trauma upon the laryngeal nerves. Ann. Surg., 1918, lxvii, 257–272. (With E. S. Judd and F. C. Mann.)
21. Cartilaginous tumors of the larynx. Laryngoscope, 1918, xxviii, 367–375.
22. The use of celluloid in the correction of nasal deformities. Jour. Am. Med. Assn., 1918, lxx, 988–990.
23. Harelip and cleft palate. Minn. Med., 1918, i, 8–16.
24. Use of heat and radium in treatment of cancer of jaws and cheeks. New York Med. Jour., 1918, cvii, 1203–1204; Jour. Am. Med. Assn., 1918, lxxi, 1369–1371; Dental Sum., 1919, xxxix, 289–292.
25. The value of radium in the treatment of neoplasms of the nose, throat, and mouth. Canadian Med. Quarterly, May, 1919; Radium, 1919–1920, xiv, 12–16.
26. Amyloid tumors of the upper air passages. Laryngoscope, 1919, xxix, 327–341.
27. Angiomas of the larynx. Report of three cases. Ann. Otol., Rhin., and Laryngol., 1919, xxviii, 1025–1049. (With C. M. Clark.)
28. Rhinophyma. Laryngoscope, 1919, xxix, 391–395.
29. Ankylosis of the jaw due to fixation of the temporal muscle. Jour. Am. Med. Assn., 1919, lxxiii, 264–265.

30. Mixed tumors of the throat, mouth, and face. Jour. Am. Med. Assn., 1920, lxxv, 732–737.
31. Treatment of malignant tumors of the antrum. Jour. Am. Med. Assn., 1920, lxxiv, 1296–1300.
32. Radium in the treatment of diseases of the eye and adnexa. Am. Jour. Ophthal., 1920, iii, 244–250. (With W. L. Benedict.)
33. Case I. Rhinophyma. Case II. Rhinoscleroma. Surg. Clin. N. Am., 1921, i, 1393–1399.
34. Treatment of multiple papillomas of the larynx in children. Ann. Otol., Rhinol., and Laryngol., 1921, xxx, 631–636.
35. An unusual case of bilateral abductor laryngeal paresis. Laryngoscope, 1921, xxxi, 630–632.
36. The relation of nasopharyngeal malignancy to other diagnoses. Minn. Med., 1921, iv, 419–422.
37. Melano-epithelioma of the palate. Jour. Am. Med. Assn., 1921, lxxvii, 19–22. (With F. K. Hansel.)
38. Cicatricial laryngopharyngeal diaphragm. Jour. Am. Med. Assn., 1921, lxxvi, 996–997. (With P. P. Vinson.)
39. Syndrome of malignant tumors of the nasopharynx. A report of seventy-nine cases. Jour. Am. Med. Assn., 1922, lxxix, 10–14.
40. Actinomycosis of the tongue. Am. Jour. Med. Sc., 1922, clxiii, 507–516.
41. Two unusual nasopharyngeal tumors. Laryngoscope, 1922, xxxii, 99–102.
42. The delayed pedicle flap in plastic surgery of the face and neck. Minn. Med., 1922, v, 721–724.
43. Hyperhidrosis of the cheek associated with injury to the parotid region. Minn. Med., 1922, v, 652–657. (With H. E. Bozer.)
44. The larynx in diseases of the thyroid. Ann. Clin. Med., 1923, i, 262–265.
45. Laryngeal paralysis associated with the jugular foramen syndrome and other syndromes. Am. Jour. Med. Sc., 1923, clxv, 727–737.
46. The use of the delayed flap in secondary operations on the palate and antrum. Minn. Med., 1923, vi, 214–220.
47. Carcinoma of the tongue. General principles involved in operations and results obtained at the Mayo Clinic. Surg., Gynec., and Obst., 1923, xxxvi, 163–169; Radium Therapist, 1923, ii, 221–224. (With E. S. Judd.)
48. Actinomycosis of the head and neck. A report of 107 cases. Surg., Gynec., and Obst., 1923, xxxvii, 617–625; Radium, 1924, ii, 257–271. (With F. A. Figi.)
49. Congenital obstruction of the larynx and pharynx. Jour. Am. Med. Assn., 1923, lxxxi, 363–366.
50. Giant-cell tumor. Solid odontoma. Hygroma cystica. Thyroglossal duct sinus. Surg. Clin. N. Amer., 1924, iv, 521–530.
51. The larynx in diseases of the thyroid. (Editorial.) Surg., Gynec., and Obst., 1924, xxxix, 243–244.
52. The roentgenologic diagnosis of pathologic conditions of the jaw. Radiology, 1924, iii, 165–167.
53. Nasal deformities. Minn. Med., 1924, vii, 629–633.
54. Treatment of fibromas of the nasopharynx: report of thirty-two cases. Am. Jour. Roentgenol., 1924, xii, 340–343; Ann. Otol., Rhinol., and Laryngol., 1925, xxxiv, 191–196. (With F. A. Figi.)
55. Value of the roentgen ray in diagnosis of tumors of the jaw. Jour. Am. Med. Assn., 1924, lxxxiii, 1555–1558; Dental Sum., 1925, xlv, 570–575. (With F. A. Figi.)
56. The use of full thickness skin grafts. Minn. Med., 1924, vii, 714–716. (With F. A. Figi.)
57. Metastasis from symptomless cancer of the esophagus. Med. Jour. and Rec., 1924, cxx, xix–xx. (With P. P. Vinson.)

58. The treatment of malignant tumors of the pharynx and nasopharynx. Surg., Gynec., and Obst., 1925, xl, 177–182.
59. Unusual pharyngeal lesions. Arch. Otolaryngol., 1925, i, 384–391.
60. Tumors of the nose, throat, and ear. A review of the literature. Arch. Otolaryngol., 1925, i, 545–552.
61. Pemphigus from the laryngologist's standpoint. Arch. Otolaryngol., 1925, i, 617–623. (With P. A. O'Leary.)
62. Plastic surgery of the nose. Surg., Clin. N. Amer., 1925, v, 721–728.
63. The treatment of malignant tumors of the nose, throat, and mouth. Kansas City Med. Rec, 1926, i, 23–27.
64. Newer procedures and methods in plastic surgery of the face and neck. South. Med. Jour., 1926, xix, 138–140.
65. Tumors of the nose and throat. Arch. Otolaryngol., 1926, iii, 461–465.

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Bibliography.—1. Desmoid tumors: a report of thirty-one cases at the Mayo Clinic. Arch. Surg., 1923, vii, 227–236.

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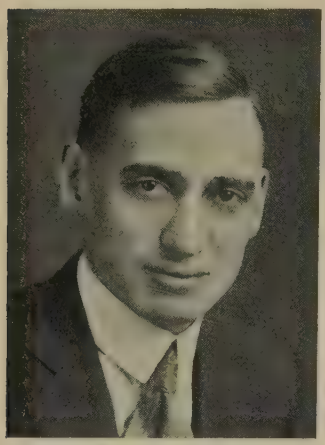

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Bibliography.—1. Bacillus enteritidis peritonitis, with report of a case. Tr. Chicago Path. Soc., 1919–1923, xi, 373–380.

Nixon, Samuel H., M.D., was born September 6, 1893 in Floyd, Virginia; attended Virginia Polytechnic Institute in Blacksbury, Virginia, from 1912 to 1914; received the degree of M.D. in 1920 from the Medical College of Virginia in Richmond; was intern at the Memorial Hospital in Richmond in 1919 and 1920; practiced in Christiansburg, Virginia, from September, 1920 to March, 1923, and was assistant physician at the Altamount Hospital there in 1922 and 1923. He entered The Mayo Foundation April 1, 1923 as a fellow in surgery, and was on leave of absence at his home in Christiansburg from July 7, 1924 to July 1, 1925. His services included postoperative treatment, three months; general diagnosis, one year; pathologic anatomy, three months, and proctology, three months. He left The Mayo Foundation February 1, 1926, and is now practicing in El Paso, Texas. He is a member of the American Medical Association and Phi Chi. He married Gertrude Altizer October 24, 1923. His address is General Delivery, El Paso, Texas.

Samuel H. Nixon

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Thomas P. Noble

Bibliography.—1. Note on a case of pericardiotomy. Lancet, 1919, i, 107–108. (With A. B. Vine.)
2. Adolescent coxa vara. Ann. Surg., 1924, lxxx, 773–778.
3. Myositis ossificans. A clinical and radiological study. Surg., Gynec., and Obst., 1924, xxxix, 795–802.
4. Pseudocoxalgia. Jour. Bone and Joint Surg., 1925, vii, 70–84.
5. The Klippel-Feil syndrome. Numerical reduction of cervical vertebræ. Ann. Surg., 1925, lxxxii, 728–734. (With J. M. Frawley.)
6. Acute bone atrophy. Arch. Surg., 1926, xii, 75–94. (With E. D. Hauser.)
7. Coxa vara. Arch. Surg., 1926, xii, 501–538. (With E. D. Hauser.)

Noonan, James J., Jr., B.S., M.D., was born May 17, 1894 in Alton, Illinois; received the degree of B.S. from the University of Chicago in 1916, and of M.D. from Rush Medical College, University of Chicago, in 1918, and was intern in the Wesley Memorial Hospital, Chicago, from March, 1918 to September, 1919. He entered The Mayo Foundation October 1, 1919 as a fellow in surgery; his services included anatomy (Medical School, Minneapolis), eight and one-half months; general diagnosis, twelve and one-half months; postoperative treatment, three months; orthopedic diagnosis, three months, and operative surgery, fifteen months. He left The Mayo Foundation April 1, 1923, and is now in practice in Marshalltown, Iowa. He is a member of the Marshall County Medical Society, the Iowa State Medical Society, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and is a diplomate of the National Board of Medical Examiners. He married Beatrice F. Endres June 30, 1925. His address is 212 Masonic Temple, Marshalltown, Iowa.

James J. Noonan, Jr.

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Ochsenhirt, Norman C., B.S., M.D., was born February 12, 1892 in Pittsburgh, Pennsylvania; received the degree of B.S. in 1916, and of M.D. in 1917, from the University of Pittsburgh; was intern at the Allegheny General Hospital, Pittsburgh, from July, 1917 to July, 1918; was in the medical corps, U. S. A., from then until August, 1919; practiced in Enon Valley, Pennsylvania, one year; was in the United States Public Health Service in Pittsburgh from October, 1920 to November, 1922, and practiced in Pittsburgh from then until July 1, 1924, when he entered The Mayo Foundation as a fellow in surgery. His services to January 1, 1926 included postoperative treatment, three months; pathologic anatomy, six months; general diag-

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Offutt, Susan R., B.A., M.D., was born October 25, 1891 in Greensburg, Pennsylvania; received the degree of B.A. in 1915 from Randolph-Macon Women's College, Lynchburg, Virginia, and the degree of M.D. in 1919 from the University of Pittsburgh; was intern at St. Francis Hospital in Pittsburgh from 1919 to 1920, and practiced in Pittsburgh from 1920 to 1923, also being on the gynecological staff of St. Francis Hospital and of the State Genito-Urinary Clinic. She came to the Mayo Clinic July 1, 1923 as an assistant in one of the sections on medicine; was appointed first assistant October 1, 1925, and associate January 1, 1926. She is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Zeta Tau Alpha. Her address is Rochester, Minnesota.

Susan R. Offutt

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Bibliography.—1. The provocative Wassermann test in the clinical diagnosis of syphilis. Am. Jour. Syph., 1917, i, 629–648. (With J. H. Stokes.)
2. The provocative procedures in the diagnosis of syphilis. Arch. Dermat. and Syphil., 1920, ii, 348–353.
3. The use of antispecific remedies in the treatment of diseases of the uveal tract. Tr. Pacific Coast Oto-Ophthal. Soc., 1922, 44–51. (With W. L. Benedict.)
4. The dermatologic aspects of rat-bite fever. Arch. Dermat. and Syph., 1924, ix, 293–304.
5. Stigmas of late congenital syphilis. Minn. Med., 1924, vii, 651–656.
6. The cutaneous lesions of late syphilis. Minn. Med., 1924, vii, 766–773.
7. Postarsphenamin jaundice. Med. Clin. N. Amer., 1925, viii, 1203–1213.
8. Skin capillaries in scleroderma. Arch. Int. Med., 1925, xxxvi, 73–88. (With G. E. Brown.)
9. Pemphigus from the laryngologist's standpoint. Arch. Otolaryngol., 1925, i, 617–623. (With G. B. New.)
10. Purpura hæmorrhagica as a complication in the treatment of syphilis. Am. Jour. Syph., 1925, ix, 262–273. (With H. M. Conner.)

11. Malaria as an adjunct in the treatment of neurosyphilis. Internat. Clin., 1925, s. 35, iii, 103–108.
12. A preliminary report on the treatment of neurosyphilis by malaria. Arch. Dermat. and Syph., 1926, xiii, 301–320. (With W. H. Goeckerman and S. T. Parker.)
13. The significance of normal spinal fluid in cases of neurosyphilis. Jour. Am. Med. Assn., 1925, lxxxv, 1276–1281. (With M. O. Nelson.)
14. Syphilitic lesions of the mouth. Jour. Am. Dent. Assn., 1926, xiii, 305–316.
15. Further observations on the treatment of neurosyphilis with tryparsamid. Med. Jour. and Rec., 1926, cxxiii, 305–308. (With S. W. Becker.)

Olson, Frederick A., B.A., M.D., M.S. in Urology, F.A.C.S., was born May 9, 1884 in Wells, Minnesota; received the degree of B.A. from the University of Minnesota in 1905, of M.D. from Rush Medical College, University of Chicago, in 1908, and of M.S. in Urology from the University of Minnesota in 1918, and was intern at the Cook County Hospital, Chicago, for eighteen months in 1908 and 1909. He entered the Mayo Clinic as a fellow in urology December 1, 1909; his services included pathology, one month; surgery, fourteen months; general diagnosis, ten months; roentgenology, four months, and urology, eight months. His work at the Clinic was not continuous, as he left in 1912 to practice in Minneapolis, returning to the Clinic in 1915, and completing his work February 1, 1916. During the war he was First Lieutenant in the Medical Reserve Corps, instructing in the Reserve Officers Training Corps at the University of Minnesota. Since 1916 he has been practicing surgery in Minneapolis, where he is also an instructor in surgery at the University. He is a member of the Hennepin County Medical Society, the Minnesota State Medical Association, the Southern Minnesota Medical Association, the Minnesota Pathological Society, the Chicago Urological Society, the American Urological Society, the American Medical Association, the American College of Surgeons, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Alpha Kappa Kappa. His address is 420 Syndicate Building, Minneapolis, Minnesota.

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Bibliography.—1. Roentgenographic diagnosis in renal tuberculosis. Surg., Gynec., and Obst., 1919, xxviii, 555–561. (With W. F. Braasch.)
2. Fractures of the femur. Tr. Assn. Res. and Ex-Res. Phys. Mayo Clinic, 1922, iii, 151–164.

Omohundro, Miles P., M.D., was born July 6, 1896 in Montrose, Virginia; attended the College of William and Mary and the University of Virginia, where he received the degree of M.D. in 1922; was intern at the University of Virginia Hospital one year, and was acting assistant resident at the Blue Ridge Sanatorium, Charlottesville, Virginia, from October 1, 1923 to April 1, 1924, when he entered The Mayo Foundation as a fellow in urology. His services to January 1, 1926 included radium therapy, three months; general diagnosis, three months; urology, one year, and operative surgery, three months. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, Pi Kappa Alpha, and Nu Sigma Nu. His address is Rochester, Minnesota.

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Bibliography.—1. The fixation of atmospheric nitrogen. (Unpublished thesis.)
2. Sugar syrup from homegrown sugar beets. Jour. Indust. Chem., 1920, xii, 154–156.
3. Membrane potentials. Pamphlet publication, Ohio State Univ., 1924; Jour. Phys. Chem. (In press.)

Osborne, Earl D., M.D., M.S. in Dermatology, was born February 1, 1895 in Petoskey, Michigan; received the degree of M.D. in 1919 from the University of Michigan, Ann Arbor, and of M.S. in Dermatology in 1925 from the University of Minnesota. He entered The Mayo Foundation April 1, 1919 as a fellow in dermatology; his services included dermatology and syphilology, eighteen months, and serology, three months. He left The Mayo Foundation January 1, 1923 to establish a practice in Buffalo, New York. He is a member of the Erie County Medical Society, the Buffalo Academy of Medicine, the Medical Society of the State of New York, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Phi Chi, and Sigma Xi. He married Emily Smith June 28, 1920. His address is 471 Delaware Avenue, Buffalo, New York.

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Bibliography.—1. Iodin in the cerebrospinal fluid with special reference to iodid therapy. Jour. Am. Med. Assn., 1921, lxxvi, 1384–1386.

2. A rubber stopper for containers used in preparing blood serum for intraspinal injections. Jour. Am. Med. Assn., 1922, lxxviii, 580.

3. Morphea associated with hemiatrophy of the face. Arch. Dermat. and Syphil., 1922, vi, 27–34.

4. Contributions to the pharmacology and therapeutics of iodids. Jour. Am. Med. Assn., 1922, lxxix, 615–617.

5. Roentgenography of the urinary tract during the excretion of sodium iodid. Jour. Am. Med. Assn., 1923, lxxx, 368–373. (With C. G. Sutherland, A. J. Scholl, and L. J. Rowntree.)

6. The clinical and serologic value of the colloidal benzoin reaction. Arch. Dermat. and Syph., 1925, xii, 706–719.

7. Microchemical studies of arsenic in arsenical pigmentation and keratoses. Arch. Dermat. and Syph., 1925, xii, 773–788.

8. The microchemical study of arsenic in tissue. Tr. Res. and Ex-Res. Phys. Mayo Clinic, 1925, vi, 81–89.

Osterberg, Arnold E., B.S., M.S. in Physiologic Chemistry, Ph.D., was born February 9, 1894 in Minneapolis; received the degree of B.S. in Chemical Engineering from the University of Washington in 1916, of M.S. in Physiologic Chemistry in 1921, and of Ph.D. in 1925 from the University of Minnesota. From 1916 to 1917 he taught chemistry, physics, and biology in Roslyn, Washington. He came to The Mayo Foundation May 8, 1917 as first assistant in the Section on Biochemistry, and was appointed associate in the Section on Biochemistry October 1, 1924. He is also an instructor in physiologic chemistry, The Mayo Foundation, Graduate School, University of Minnesota. He was Second Lieutenant in the Signal Corps of the Aviation Corps for seven months in 1918. He is a member of Phi Lambda Upsilon and Sigma Xi. He married Anne Curtis May 11, 1918. His address is Rochester, Minnesota.

Arnold E. Osterberg

Bibliography.—1. The preparation of cyanamide. Jour. Biol. Chem., 1917, xxxii, 297–298. (With E. C. Kendall.)

2. A method for the preparation of prophylactic and autogenous lipovaccines. Jour. Am. Med. Assn., 1919, lxxiii, 67–91. (With E. C. Rosenow.)

3. The chemical identification of thyroxin. Second paper. Jour. Biol. Chem., 1919, xl, 265–334. (With E. C. Kendall.)

4. The preparation of certain derivatives of cycloherane. Jour. Am. Chem. Soc., 1920, xlii, 2616–2626. (With E. C. Kendall.)

5. The ortho-diethylamino-cyclohexanol ester of para-aminobenzoic acid. Jour. Am. Chem. Soc., 1921, xliii, 1370–1371. (With E. C. Kendall.)

6. The preparation of 2 oxo dihydro and 2 oxo hexahydro-indol 3 propionic acid and some of their halogen derivatives. Studies on thyroid activity. Fifth paper. Jour. Am. Chem. Soc., 1926, xlviii, 1384–1401. (With E. C. Kendall and B. F. MacKenzie.)

Ott, William O., B.S., M.D., M.S. in Surgery, was born September 29, 1883 at Mount Vernon, Louisiana; received the degree of B.S. from Louisiana State University in 1910, of M.D. from Rush Medical College, University of Chicago in 1914, and of M.S. in Surgery from the University of Minnesota in 1919. From June, 1914 to July, 1916 he was intern at Charity Hospital, New Orleans, Louisiana. He entered The Mayo Foundation as a fellow in surgery July 1, 1916; his services included general diagnosis, eighteen months, and surgery, eighteen months. He was commissioned First Lieutenant in the Medical Corps, U. S. A., November 4, 1918, and was on the surgical service of the Army Hospital at Camp Grant, and later at United States General Hospital No. 28. He received his discharge December 4, 1919, and returned to the Clinic as first assistant in general and neurologic surgery, where he remained until September, 1923. Since then he has been practicing surgery in Fort Worth, Texas. He is a member of the State Medical Association of Texas and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Margaret Smith December 7, 1919. His address is 1401 Pennsylvania Street, Fort Worth, Texas.

William O. Ott

Bibliography.—1. The treatment of diphtheria with iodized phenol. Jour. Am. Med. Assn., 1916, lxvi, 800–802. (With K. A. Roy.)
2. Hemoglobinuric fever, treated by infusions containing quinin. Jour. Am. Med. Assn., 1916, lxvii, 872–874.
3. Treatment of sciatica. Jour. Am. Med. Assn., 1921, lxxvii, 399.
4. Brain abscess following frontal sinusitis. Surg., Gynec., and Obst., 1921, xxxiii, 72–73.
5. Results of twenty-one cases of surgical treatment of aneurysm. Ann. Surg., 1921, lxxiv, 513–524.
6. A study of thirty-four cases treated by epidural injections and removal of foci of infection. Treatment of sciatica. Minn. Med., 1921, iv, 718–720.
7. Cranial nerve palsies produced by tumors in the region of the jugular foramen. Surg., Gynec., and Obst., 1922, xxxiv, 597–601.
8. Results of treatment in forty-eight cases of sciatica. Ann. Surg., 1922, lxxvi, 272–276
9. Experimental results of cable grafts and tubes of fascia lata in the repair of peripheral nerve defects. Minn. Med., 1922, v, 581–588.
10. Preservation of facial nerve in radical treatment of parotid tumors. Arch. Surg., 1923, vi, 739–746. (With A. W. Adson.)
11. The diagnosis and treatment of tumors of the spinal cord, involving the conus and cauda equina. New Orleans Med. and Surg. Jour., 1923, lxxvi, 169–172. (With A. W. Adson.)
12. A study of ventriculography. Radiology, 1924, ii, 65–73. (With A. S. Crawford and A. W. Adson.)
13. Surgical treatment of solitary tumors of peripheral nerves. Texas State Med. Jour., 1924, xx, 171–175.

Palmer, Dudley W., B.S., M.D., F.A.C.S., was born February 5, 1877 at Cincinnati, Ohio; received the degree of B.S. in 1899 and of M.D. in 1906 from the University of Cincinnati, and was intern at the Cincinnati General Hospital from May 1, 1906 to November 10, 1907. He came to the Mayo Clinic in November, 1907. He was intern at St. Mary's Hospital (Mayo Clinic) for one year; for six months he was first assistant in surgery, and for ten months studied general diagnosis (these services overlapped). He left the Clinic in October, 1909 to practice surgery in Cincinnati, Ohio. During the war he was Captain in the Medical Corps, U. S. A., stationed at Oglethorpe, Camp Jackson, and later was Chief of the Surgical Service at U. S. General Hospital 9. He is now a member of the attending staff in general surgery at the Cincinnati General Hospital and Christ Hospital, Cincinnati, and is clinical professor of surgery at the University of Cincinnati. He is a member of the Cincinnati Academy of Medicine, the Daniel Drake Society, the Ohio State Medical Association, the American College of Surgeons, the American Surgical Association, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Nu Sigma Nu. He married Florence D. Prather June 21, 1913. His address is 707 Livingstone Building, Cincinnati, Ohio.

Dudley W. Palmer

Bibliography.—1. Pelvic transplantation metastasis as a means of recognition of hopeless abdominal carcinoma. Surg., Gynec., and Obst., 1910, x, 154–156.
2. An unusual site for lipoma: axilla. Lancet-Clinic, 1911, cv, 475.
3. Cardiospasm. Lancet-Clinic, 1911, cvi, 32–37.
4. Prophylactic cancer surgery. A plea for the public's education. Ohio State Med. Jour., 1912, viii, 292.
5. Hernia of stomach and spleen through diaphragm. Lancet-Clinic, 1914, cxi, 284.
6. Musculospiral paralysis. Lancet-Clinic, 1914, cxi, 264.
7. Stab wound; herniation of stomach and spleen through diaphragm; operation; recovery. Lancet-Clinic, 1914, cxi, 284.
8. Intussusception. Lancet-Clinic, 1914, cxii, 107.
9. Von Recklinghausen's disease with sarcomatous degeneration. Lancet-Clinic, 1914, cxii, 564.
10. Carcinoma of the stomach. Lancet-Clinic, 1914, cxi, 562.
11. Parotid epithelioma. Lancet-Clinic, 1914, cxii, 565.
12. Pyloric ulcer, specimen. Lancet-Clinic, 1915, cxiii, 555.
13. Cancer: What can be hoped for the immediate future? Lancet-Clinic, 1915, cxiv, 161.
14. Quack cancer advertising. Lancet-Clinic, 1915, cxiv, 141.
15. Gastric carcinoma. Lancet-Clinic, 1915, cxiv, 6–8.
16. Congenital hyperplastic pyloric stenosis from a surgical viewpoint. Ohio State Med. Jour., 1916, xii, 730–737.

17. Hyperplastic pyloric stenosis. Ann. Surg., 1917, lxvi, 428.
18. Open safety pin in an infant's stomach. Jour. Am. Med. Assn., 1918, lxx, 480; also Am. Jour. Roentgenol., 1918, v, 334.
19. Duodenal fistulas. Jour. Am. Med. Assn., 1918, lxx, 595–596.
20. Hyperplastic pyloric stenosis of infancy. Tr. Assn. Res. and Ex-Res. Phys., Mayo Clinic, 1919, i, 74–86.
21. Report of a case of complete puerperal inversion of the uterus. Cincinnati Jour. Med., 1920, i, 172–174.
22. Duoddnal ulcer in infancy. Ann. Surg., 1921, lxxiii, 545–550.
23. Central dislocation of the hip with report of three cases. Am. Jour. Surg., 1921, xxxv, 118–121.
24. Pelvic transplantation metastasis. Cincinnati Jour. Med., 1291, ii, 36–39.
25. An unusual history of ectopic pregnancies. Jour. Am. Med. Assn., 1921, lxxvi, 793.
26. Cancer of the stomach. Cincinnati Jour. Med., 1922, ii, 396–398.
27. Congenital pyloric stenosis. Arch. Pediat., 1922, xxxix, 582–592.
28. How shall we treat gallbladder disease? Am. Jour. Surg., 1923, xxxvii, 149–153.
29. Some observations on cholecystitis. Cincinnati Jour. Med., 1925, vi, 59–64.
30. The rationale of gallbladder therapeusis. Ohio State Med. Jour., 1925, xxi, 309–314.
31. Complications of Meckel's diverticulum: report of two cases. Tr. Res. and Ex-Res. Phys. Mayo Clinic, 1925, vi, 159–166.
32. Phineas Sanborn Conner. (Master Surgeons of America.) Surg., Gynec., and Obst., 1926, xlii, 290–294.

Pangburn, John W., Ph.G., M.D., was born March 23, 1893 at Rensselaer, New York; received the degree of Ph.G. from Union University, Jackson, Tennessee, in 1911, and of M.D. from the New York Homeopathic Medical College in 1917, and was intern at the Flower Hospital, New York City, from June, 1917 to June, 1918. He entered The Mayo Foundation as a special student in surgery, July 7, 1918; his services included general diagnosis, ten months; orthopedic diagnosis, three months; roentgenology, two months; urology, one year; surgical pathology, three months, and surgery, nine months. He left The Mayo Foundation October 1, 1921, and is practicing in New York City and in Mount Vernon, New York. He is assistant attending surgeon at the Fifth Avenue Hospital and the Broad Street Hospital, New York City, and attending urologist at the Yonkers Homeopathic Hospital and at St. John's Hospital, Yonkers. He is a member of the Academy of Pathological Science (New York City) and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Lou Outlaw August 19, 1914. His address is 310 West Eightieth Street, New York City.

John W. Pangburn

Pardee, Katharine, B.A., M.D., was born April 7, 1890 in Philadelphia; received the degree of B.A. from Wellesley College, Wellesley, Massachusetts, in 1912, and of M.D. from Johns Hopkins University, Baltimore, in 1918; was intern in Johns Hopkins Hospital, on gynecological service, from April, 1918 to August, 1919, and was intern in the Hospital for the Women of Maryland, Baltimore, from September, 1919 to July, 1920. She entered The Mayo Foundation August 1, 1920 as a fellow in medicine; her services included general diagnosis, fourteen months; radium therapy, three months; surgical pathology, six months, and medical hospital residence, two months. She was on leave of absence from September, 1922 to January, 1923; she left The Mayo Foundation in August, 1923, to become resident physician at the State Teachers' College, Moorhead, Minnesota, where she remained one year. Since September, 1924 she has been assistant physician at Smith College, Northampton, Massachusetts. She is a member of the American Medical Association and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. Her address is Smith College, Northampton, Massachusetts.

Katharine Pardee

Parham, Duncan, M.D., M.S. in Surgery, was born April 27, 1895 in New Orleans, Louisiana; received the degree of M.D. from Tulane University, New Orleans, in 1918, and of M.S. in Surgery from the University of Minnesota, Minneapolis, in 1922, and was intern in the Touro Infirmary, New Orleans, Louisiana, from 1918 to 1919. He entered The Mayo Foundation August 1, 1919 as a fellow in surgery, and his services included general diagnosis, fourteen months; neurology, three months; surgical pathology, six months; postoperative treatment, six months, and surgery, twelve months. He served in the United States Reserve Corps during the war. He left The Mayo Foundation July 1, 1922 to join the staff of the Woman's Hospital, New York City. He then practiced in New Orleans, Louisiana, until October, 1925, when he

Duncan Parham

moved to Pennsylvania, and is now practicing surgery in Oil City and Titusville. He is a member of the Venango County Medical Society, the Medical Society of the State of Pennsylvania, the American Medical Association, the Southern Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He was married April 21, 1920 to Althea Puech. His address is 202 Odd Fellows Building, Oil City, Pennsylvania.

Bibliography.—1. Renal and hepatic insufficiency in obstructive jaundice. (Thesis.) Surg., Gynec., and Obst., 1922, xxxv, 605–509. (With Waltman Walters.)
2. Colloid carcinoma. Ann. Surg., 1923, lxxvii, 90–105.
3. Control of accidental hemorrhage from the cystic artery. Surg., Gynec., and Obst., 1925, xli, 367.

Parker, Bennett R., B.S., M.D., was born August 9, 1889 in Warsaw, Illinois; received the degree of B.S. from the University of Chicago in 1913, and of M.D. from Rush Medical College, University of Chicago, in 1915; was intern in Augustana Hospital, Chicago from 1915 to 1918, and served as Lieutenant in the Medical Corps, U. S. A., stationed at Base Hospital 11 from April 16, 1918 to March 12, 1919, and at Fort Sheridan from March 30 to July 19, 1919. He entered The Mayo Foundation October 20, 1919 as a fellow in surgery; his services to January 1, 1926 included general diagnosis, eleven and one-half months; orthopedic surgery, three months; postoperative treatment, six months; surgical pathology, six months; roentgen-ray therapy, three months; neurologic surgery, three months, and operative surgery, three years and six months. He was resident surgeon at St. Mary's Hospital, Rochester, from October 1, 1923 until July 1, 1924, when he was appointed first assistant in one of the sections on general surgery. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Alpha Tau Omega, and Alpha Kappa Kappa. He married Helene Matthies January 27, 1919. His address is 30 North Michigan Avenue, Chicago, Illinois.

Bennett R. Parker

Bibliography.—1. Gastrojejunal ulcer. Oxford Loose Leaf Surgery, 1924, i, pt. 2, 1060–1075. (With E. S. Judd.)
2. Urinary and prostatic calculi. Surg. Clin. N. Amer., 1925, v, 655–672. (With E. S. Judd and H. D. Morse.)

3. Tumors of the urachus. With report of seven cases. Surg., Gynec., and Obst., 1926, xlii, 19–27. (With F. W. Rankin.)

Parker, Harry L., B.A., M.B., B.Ch., B.A.O., L.M., M.S. in Neurology, was born February 20, 1894 in Limerick, Ireland; received the degree of B.A. in 1916, M.B., B.Ch., and B.A.O. from Trinity College, Dublin, Ireland, and L.M. from Rotund Hospital, Dublin, in 1918, and M.S. in Neurology from the University of Minnesota in 1923; served in France as Lieutenant in the Royal Army Medical Corps, B. E. F., from 1918 to 1919, and was in general practice in Clifden, Galway, Ireland, from June to September, 1919. He entered The Mayo Foundation in November, 1919 as a fellow in surgery, but transferred his major to neurology in July, 1921; his services to January 1, 1926 included pathologic anatomy, two months; neurology, five years, and general diagnosis, six months. He was appointed first assistant in the Section on Neurology, Mayo Clinic, March 1, 1921, and an associate January 1, 1925. He is an instructor in neurology, The Mayo Foundation, Graduate School, University of Minnesota. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the Minnesota Neurological Society, the Central Neuropsychiatric Association, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Florence Lampert August 6, 1923. His address is Rochester, Minnesota.

Harry L. Parker

Bibliography.—1. Juvenile tabes. Review of the literature and summary of seven cases. Arch. Neurol. and Psychiat., 1921, v, 121–130.

2. Disturbances of the respiratory rhythm in children. Arch. Neurol. and Psychiat., 1922, vii, 630–638.

3. The diagnosis of tumors of the cauda equina, conus and epiconus medullaris: A report of nine cases. Am. Jour. Med. Sc., 1922, clxiii, 342–364.

4. A case of Recklinghausen's disease with involvement of the peripheral nerves, optic nerve, and spinal cord. Jour. Nerv. and Ment. Dis., 1922, lvi, 441–452.

5. Tumors of the brain simulating epidemic encephalitis and involving the third ventricle, the fourth ventricle, and the basal ganglia: report of three cases. Jour. Nerv. and Ment. Dis., 1923, lviii, 1–15.

6. The clinical significance of pain in the area supplied by the fifth cranial nerve. Minn. Med., 1924, vii, 69–78.

7. Unusual forms of pain in the area of the fifth nerve. Jour. Am. Med. Assn., 1924, lxxxiii, 1672–1678; Dental Sum., 1925, xlv, 830–847.

8. Clinical types of vertigo. Med. Clin. N. Amer., 1925, viii, 1307–1317.

9. Compression of the spinal cord and its roots by hypertrophic osteo-arthritis; diagnosis and treatment. Surg., Gynec., and Obst., 1925, xli, 1–14. (With A. W. Adson.)

Parker, James W., Jr., B.S., M.D., was born January 21, 1895 in Warsaw, Illinois; attended the University of Chicago in 1914 and 1915; received the degree of B.S. in 1919, and of M.D. in 1920, from the University of Illinois; interned at the Chicago Lying-in Hospital and at the Grant Hospital of Chicago, and entered The Mayo Foundation April 1, 1922 as a fellow in surgery. His services thus far have included post-operative treatment, three months; general diagnosis, fifteen months; obstetrics, one and one-half months; proctology, one and one-half months; dermatology and syphilology, six months; urology, nine months, and operative surgery, four months. He was on leave of absence from the Foundation from December, 1924 to April, 1925. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Alpha Tau Omega, and Alpha Kappa Kappa. His address is Rochester, Minnesota.

James W. Parker, Jr.

Parker, Stephen T., M.D., B.S., was born August 24, 1896 in Butte, Montana; received the degree of M.D. in 1921 from Creighton Medical College, Omaha, Nebraska, and the degree of B.S. in 1923 from Gonzaga University, Spokane, Washington; was intern at St. Joseph's Hospital, Omaha, from August, 1921 to August, 1922, and then practiced in Spokane until April 1, 1923, when he entered The Mayo Foundation as a fellow in dermatology and syphilology His service to July 1, 1926 was three years and three months in the Section on Dermatology and Syphilology. He was appointed first assistant in this section January 1, 1926. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, and Phi Beta Pi. He married Eusebia Mangan October 3, 1922. His address is 717 Cobb Building, Seattle, Washington.

Stephen T. Parker

Bibliography.—1. A preliminary report on the treatment of neurosyphilis by malaria. Arch. Dermat. and Syph., 1926, xiii. (In press.) (With P. A. O'Leary and W. H. Goeckerman.)

Peirce, Sidney J. S., B.A., M.D.C.M., was born February 20, 1876 in Southampton, England; received the degree of B.A. in 1898 and of M.D.C.M. in 1904 from Manitoba University; was intern at the Winnipeg General Hospital from May, 1904 to May, 1906, and also practiced in Winnipeg and Norwood, Manitoba, in 1906. He came to the Mayo Clinic in November, 1906 as volunteer assistant in the pathological laboratory, and worked there for one year. From 1908 to 1918 he was pathologist at the Winnipeg General Hospital. During the war he was a Lieutenant in the Army Medical Corps of the Canadian Militia, but had no active service. In 1918 he established a private practice in association with the Bigelow Clinic at Brandon, Manitoba. He is a member of the Scientific Club, University of Manitoba, the Manitoba Medical Association (President 1922–1923), the Canadian Medical Association, the American Association of Pathologists and Bacteriologists, the Society of American Bacteriologists, the American Association for the Advancement of Science, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Alice Moreton May 6, 1909. His address is 1608 Lorne Avenue, Brandon, Manitoba, Canada.

Sidney J. S. Peirce

Bibliography.—1. Meningitis. Jour. Winnipeg Med.-Chir. Soc., 1905–1906, ii, 68–75.
2. Bacteriology of milk. Jour. Winnipeg Med.-Chir. Soc., 1908–1909, iv, 47–51.
3. Characteristics of typhoid fever in the middle west. Am. Pub. Hyg., 1909, xix, 243–250; also Am. Pub. Health Assn. Rep., 1909, xxxiv, 89–96.
4. Considerations concerning the identity of Landry's paralysis and anterior poliomyelitis. West. Canada Med. Jour. 1910, iv, 494–500.
5. Pathology of gallstones. West. Canada Med. Jour., 1911, v, 390–397.
6. Typhoid in the Winnipeg General Hospital. Can. Med. Assn. Jour., 1911, i, 503–508.
7. Der Gehalt der menschlichen Galle an Cholesterin und Cholesterinestern. Deutsch. Arch. f. klin. Med., 1912, cvi, 337–346.
8. Antityphoid inoculation at the Winnipeg General Hospital. Can. Med. Assn. Jour., 1914, iv, 890–893.
9. A case of progressive lenticular degeneration with autopsy . Jour. Lab. and Clin. Med., 1916, i, 830–835. (With C. Hunter.)
10. Blood transfusion. Can. Med. Assn. Jour., 1921, xi, 174–177.
11. Dental infection and internal medicine. Can. Med. Assn. Jour., 1921, xi, 423–434.

Pemberton, John deJ., B. A., M.D., M.S. in Surgery, F.A.C.S., was born May 3, 1887 in Wadesboro, North Carolina; received the degree of B. A. from the University of North Carolina in 1907, of M.D. from the University of Pennsylvania in 1911, and of M.S. in Surgery from the University of Minnesota in 1918, and was intern in the Episcopal Hospital, Philadelphia, two years. He came to the Mayo Clinic in May, 1913 as a fellow in surgery, and studied pathologic anatomy from May to July, 1913, since which time he has been on surgical service. He became assistant in one of the sections on surgery July 1, 1914, first assistant in 1916, and was appointed attending surgeon and head of a section in the Division of Surgery January 1, 1918. He is assistant professor of surgery, The Mayo Foundation, Graduate School, University of Minnesota. During the war he served as First Lieutenant in the Medical Reserve Corps, U. S. A. He is a member of the Olmsted County Medical Society, the Southern Minnesota Medical Association, the Minnesota State Medical Association, the Southern Surgical Association, the American College of Surgeons, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Alpha Tau Omega, Nu Sigma Nu, Alpha Omega Alpha, and Sigma Xi. He married Anna T. Hogeland June 4, 1918. His address is Rochester, Minnesota.

John deJ. Pemberton

Bibliography.—1. Results of operations for exophthalmic goiter. Surg., Gynec., and Obst., 1916, xxii, 269–274. (With E. S. Judd.)
2. Blood transfusion. Surg., Gynec., and Obst., 1919, xxviii, 262–276.
3. Practical considerations of the dangers associated with blood transfusions. Jour. Iowa State Med. Soc., 1920, x, 170–173.
4. Surgery of substernal and intrathoracic goiters. Arch. Surg., 1921, ii, 1–20.
5. The surgical management of toxic goiters. Boston Med. and Surg. Jour., 1922, clxxxvi, 244–254.
6. Mortality in surgery of exophthalmic goiter. Surg., Gynec., and Obst., 1923, xxxvi, 458–462.
7. Surgery of the thyroid and its mortality. Ann. Surg., 1923, lxxviii, 145–149. (With C. H. Mayo.)
8. The end-results of surgery of the thyroid gland. Ann. Clin. Med., 1923, i, 266–268; Arch. Surg., 1923, vii, 37–46.
9. Practical considerations of the dangers associated with surgery of the thyroid. Wisconsin Med. Jour., 1924, xxii, 420–422; Illinois Med. Jour., 1924, xlvi, 105–106; Jour. Iowa State Med. Soc., 1924, xiv, 124–125.
10. Obstructive dyspnea following surgery of the thyroid and its prevention. Surg. Clin. N. Amer., 1924, iv, 451–457.

11. Surgery of the thyroid. (Abstract.) Tr. Assn. Res. and Ex-Res. Phys. Mayo Clinic, 1924, v, 67–68.
12. Notes on technical difficulties of surgery of the thyroid. Surg. Clin. N. Amer., 1925, v, 743–752.
13. Problems in goiter surgery. Dallas Med. Jour., 1925, xi, 35–38.
14. Present-day surgical treatment of diseases of the thyroid gland. Jour. Am. Med. Assn., 1925, lxxxv, 1882–1888.

Perry, Clayton C., M.D., was born February 23, 1894 in Coalport, Pennsylvania; attended Dickinson College in Carlisle, Pennsylvania; received the degree of M.D. in 1920 from the University of Maryland in Baltimore; was intern at the St. Francis Hospital in Pittsburgh for one year, and practiced in Pittsburgh from August 15, 1921 to February 1, 1924. He entered The Mayo Foundation March 1, 1924 as a fellow in medicine, and his service consisted of twenty-two months in proctology. He was first assistant in the Section on Proctology from July 1, 1925 until January 1, 1926, when he left The Mayo Foundation. After four months' study at St. Mark's Hospital in London he began the practice of proctology in Cleveland, Ohio. He is a member of Beta Theta Pi and Alpha Kappa Kappa. He married Mercedes K. Messner December 5, 1922. His address is 660 Rose Building, Cleveland, Ohio.

Clayton C. Perry

Peterman, Mynie G., B.S., M.D., M.A., was born March 5, 1896 in Merrill, Wisconsin; received the degree of B.S. in 1918 from the University of Wisconsin, and the degree of M.D. in 1920 and M.A. in 1921 from the University of Washington Medical School, having a scholarship in surgery from 1919 to 1920 and a fellowship in surgery the following year; was intern at the Barnes Hospital, St. Louis, and in 1921 and 1922 was chief resident physician at the City and County Hospital, St. Paul, Minnesota. He entered The Mayo Foundation October 1, 1922 as a fellow in pediatrics; his services included roentgenology, three months, and pediatrics, two years and ten months, with part time research work in experimental pathology and physiology. He was

Mynie G. Peterman

appointed first assistant in the Section on Pediatrics October 1, 1923, and was associate from April 1, 1924 to November 1, 1925, when he left The Mayo Foundation to accept the position of director of laboratories and research at the Milwaukee Children's Hospital. He also has a private consultation practice in Milwaukee. He is a member of the Juneau County Medical Society, the State Medical Society of Wisconsin, the American Medical Association, the Central States Pediatric Society, the Northwest Pediatric Society, the Osler Medical Historical Society, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Phi Beta Pi, Phi Sigma, and Sigma Xi. He married Mildred Mackenzie September 29, 1924. His address is the Milwaukee Children's Hospital, Milwaukee, Wisconsin.

Bibliography.—1. Artificial nutrition. In: Bartlett, W.: The after-treatment of surgical patients. St. Louis, C. V. Mosby Company, 1920, i, 369–382. (With W. Bartlett.)

2. The association of hepatitis with experimental cholecystitis and its bearing on the pathogenesis of cholecystitis in the human. Arch. Surg., 1921, ii, 92–115. (With W. S. Priest and E. A. Graham.)
3. Further observations on the lymphatic origin of cholecystitis, choledochitis, and the associated pancreatitis. Arch. Surg., 1922, iv, 23–50. (With E. A. Graham.)
4. Unusual case of brain abscess and sinus thrombosis. Minn. Med., 1922, v, 487–488.
5. Cholecystitis and its complications. Surg., Gynec., and Obst., 1923, xxxvi, 522–541.
6. Résumé of the literature for 1921 on tuberculosis in childhood. Diagnostic tests and serology. Am. Jour. Dis. Child., 1924, xxvii, 382–420.
7. Meningitis with complete recovery. Arch. Pediat., 1924, xli, 70–72.
8. The ketogenic diet in the treatment of epilepsy: a preliminary report. Am. Jour. Dis. Child., 1924, xxviii, 28–33.
9. Brain abscess. Report of an unusual case. Am. Jour. Dis. Child., 1924, xxviii, 208–211.
10. The ketogenic diet in the treatment of epilepsy. Minn. Med., 1924, vii, 708–711; Dietary Administration and Therapy, 1924, ii, 462–466; 1925, iv, 93–96.
11. The ketogenic diet in epilepsy. Jour. Am. Med. Assn., 1925, lxxxiv, 1979–1982.
12. The ketogenic diet in the treatment of epilepsy: report of two cases. Med. Clin. N. Amer., 1925, viii, 1351–1352.
13. The food requirements of the epileptic child. Dietary Administration and Therapy. 1926, iv, 23–25.

Peterson, Anders, M.D., was born December 3, 1881 in Grinstad County, Dalsland, Sweden; received the degree of M.D. from the College of Physicians and Surgeons, University of Southern California, Los Angeles, in 1909; was intern in the Los Angeles County Hospital from April, 1909 to April, 1910, and from 1911 to 1916 was Assistant Superintendent of this hospital. He entered The Mayo Foundation as a special student in urology in August, 1916, and remained on this service until November, 1918, when he left to establish a private practice in urology in Los Angeles. He is a member of the Los Angeles Surgical Society, the California Medical Association, the American Urological Association, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. His address is 1136 West Sixth Street, Los Angeles, California.

Anders Peterson

Bibliography.—1. A preliminary report on the simultaneous use of indigocarmin and phenolsulphonephthalein tests in surgical diseases of the kidneys. Surg., Gynec., and Obst., 1917, xxv, 561–565.

2. The effect on the kidney of ureterovesical anastomosis. Experimental and clinical report. Jour. Am. Med. Assn., 1918, lxxi; 1885–1891.

3. Involvement of the genito-urinary tract associated with active pulmonary tuberculosis. Calif. State Jour. Med., 1921, xix, 18–19.

4. Modification of differential functional test with phenolsulphonephthalein. Jour. Urol., 1922, vii, 73–75.

5. Syphilis of the bladder. Calif. State Jour. Med., 1923, xxi, 431–432; Jour. Urol., 1924, xii, 59–62.

Pettibone, Dorothy F., A.B., M.S., was born March 30, 1894 in Burlington, Wisconsin; attended Beloit College from 1911 to 1913, and received the degree of A.B. in 1915 from the University of Wisconsin, and of M.S. in 1917 from the University of Minnesota. She entered the Mayo Foundation June 15, 1916 as a fellow in bacteriology. After one year of service in clinical bacteriology she left The Mayo Foundation, and for two years conducted private laboratories in Terre Haute, Indiana, and in Santa Ana, California. She married Louis K. Burno June 24, 1919. Her address is 300 Edgewood Place, River Forest, Illinois.

Pfunder, Malcolm C., B.A., B.S., M.D., was born January 19, 1888 in Manitowoc County, Wisconsin; received the degree of B.A. from Ripon College, Ripon, Wisconsin, in 1912, of B.S. from the University of Chicago in 1915, and of M. D. from Rush Medical College, University of Chicago, in 1919, and was intern in the Miles City Hospital, Montana, from September, 1919 to July, 1920. He entered The Mayo Foundation in July, 1920 as a fellow in ophthalmology; his services included ophthalmology, six months, and otolaryngology, one year. He left The Mayo Foundation January 1, 1922 to practice ophthalmology and otolaryngology at Miles City, Montana. He is a member of the Montana State Medical Association, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Alpha Omega Alpha, Phi Chi, and a diplomate of the National Board of Medical Examiners. He married Edna M. Gilkey February 15, 1916. His address is Miles City, Montana.

Malcolm C. Pfunder

Bibliography.—1. Primary tularemia of the eye. Jour. Am. Med. Assn., 1925, lxxxv, 1061.

Pilcher, James T., M.A., M.D., F.A.C.S., was born March 31, 1880 in Brooklyn, New York; received the degree of M.A. from the University of Michigan in 1902, and of M.D. from the College of Physicians and Surgeons, Columbia University, in 1904; was intern at the Bellevue Hospital, New York, from June, 1904 to June, 1906, and practiced in Brooklyn from 1906 to 1909. He entered the Mayo Clinic as a fellow in medicine in 1909, and studied general and surgical diagnosis until July, 1911, when he left the Clinic to establish a practice in surgery in Brooklyn. He is now attending surgeon at the Brooklyn State and Unity Hospitals, visiting surgeon at Peck Memorial Hospital, St. Bartholomew's Hospital, and Eastern Long Island Hospital, and on the staff of the Pilcher Clinic. During the war he was Major in the Medical Corps, U. S. A., in command of Field Hospital

James T. Pilcher

108, Twenty-seventh Division. He is a member of the Bellevue Hospital Alumni Society, the Brooklyn Surgical Society, the Brooklyn Pathological Society, the Kings County Medical Society, the Medical Society of the State of New York, the American Gastro-Enterological Society, the American Medical Association, the American College of Surgeons, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Zeta Psi, Theta Nu Epsilon, and Nu Sigma Nu. He married Effie D. Curtis June 30, 1910. His address is 145 Gates Avenue, Brooklyn, New York.

Bibliography.—1. Glanders in the human subject. Clinical report of two cases observed in the fourth medical division of Bellevue Hospital of New York. Ann. Surg., 1907, xlv, 444–452.

2. Significance of pain in the lower left quadrant of the abdomen. Long Island Med. Jour., 1908, ii, 411–414.

3. Absence of hydrochloric acid with blood in the stomach secretion (achlorhydria hemorrhagica gastrica) as a symptom of chronic gastritis. Jour. Am. Med. Assn., 1910, lv, 1790–1792.

4. Studies of pancreatitis and the pancreatic reaction of Cammidge. Ann. Surg., 1910, il, 89–101.

5. Clinical experiences with the Cammidge reaction. Surg., Gynec., and Obst., 1910, xi, 156–159. (With B. C. Willis, B. F. McGrath, D. C. Balfour, and L. B. Wilson.)

6. Progress in the theory and practice of lesions in the alimentary tract. Physician and Surg., 1911, xxxiii, 1–6.

7. The cause and relief of pain in duodenal ulcer. Am. Jour. Med. Sc., 1911, cxli, 687–693.

8. The practical diagnosis of uncomplicated ulcer of the stomach. Jour. Michigan Med. Soc., 1911, x, 511–514.

9. Chronic gastritis of secondary origin presenting the phenomenon of achlorhydria hemorrhagica gastrica. Jour. Med. Soc., New Jersey, 1911–1912, viii, 107–110.

10. Chronic dyspepsia; some of its causes and results. Woman's Med. Jour., 1911, xxi, 220–222.

11. Dry iodin preparation of the skin for operations. Year-Book Pilcher Hosp., 1911, i, 149.

12. Silverized catgut. Year-Book Pilcher Hosp., 1911, i, 145.

13. Persistent recurrent indigestion due to chronic appendicitis. Year-Book Pilcher Hosp., 1911, i, 107–113.

14. Chronic invalidism due to pathological conditions of the colon and appendix. Med. Rec., 1911, lxxx, 1317–1319.

15. Experiences with hormonal in the treatment of acute and chronic intestinal paresis. New York State Jour. Med., 1912, xii, 648–654.

16. Postoperative gastro-enterische Parese. Arch. f. Verdauungskr., 1913, xix, 69–78.

17. Demonstration of ulcers of the stomach and duodenum co-existing with obstruction at ileocecal junction. Long Island Med. Jour., 1913, vii, 375.

18. A contribution to the etiology of pernicious anemia. Am. Jour. Med. Sc., 1913, cxlvi, 226–229.

19. The diagnosis and prognosis of duodenal ulcer. Med. Rec., 1913, lxxxiv, 156; New York State Jour. Med., 1913, xiii, 518.

20. Enteric feeding (duodenal alimentation): its practicability and indications. Year-Book Pilcher Hosp., 1915, v, 77–81; Long Island Med. Jour., 1914, viii, 205–208.

21. Methods of examination and treatment in diseases of the esophagus. Year-Book Pilcher Hosp., 1915, v, 45–73.

22. Quino-formol solution in war surgery. Ann. Surg., 1918, lxviii, 467–470.
23. Qunio-formol solution in the treatment of infections. Med. Rec., 1921, c, 852–853; Tr. Assn. Res. and Ex-Res. Phys. Mayo Clinic, 1921, ii, 43–50.
24. Carcinoma of the kidney. Ann. Surg., 1921, lxxiii, 301–309.
25. Surgery of the large intestine. Ochsner System of Surgery, 1921, iii, 143–207. (With L. S. Pilcher.)
26. Gas gangrene; treatment. Ann. Surg., 1925, lxxxi, 198–212.

Piper, Monte C., M.D., was born December 6, 1882 in Garden City, Minnesota; received the degree of M.D. from the University of Minnesota in 1910; was intern in the Minneapolis City Hospital fourteen months in 1910 and 1911, and practiced medicine in Sanborn, Minnesota, from 1911 to 1919. During the war he was First Lieutenant in the Medical Corps, stationed at Camp Dodge and at Camp Custer, and later he served as Surgeon to the 40th Machine Gun Battalion, 14th Division. He entered The Mayo Foundation as a special student in medicine, July 28, 1919, and studied general diagnosis eighteen months. He was made first assistant in a section in the Division of Medicine, Mayo Clinic, January 1, 1920, and associate April 1, 1920. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Alpha Kappa Kappa. He married Ella F. Larkin January 3, 1912. His address is Rochester, Minnesota.

Monte C. Piper

Bibliography.—1. Dentistry as viewed by the physician. (Read before the Fifth District Dental Soc., Nov., 1925.)

Plankers, Arthur G., B.S., M.D., was born July 10, 1889 in St. Paul, Minnesota; received the degree of B.S. in 1916, and of M.D. in 1918, from the University of Minnesota; interned at the Northwestern Hospital in Minneapolis for three months, and entered war service December 15, 1917. He was in France with Base Hospital 26 until March 8, 1919, and then joined the American Red Cross commission to Russia, Poland, and the Balkans. He continued in the service until June 22, 1921. The following fall he had a fellowship in surgery at the University of Minnesota, and entered The Mayo Foundation April 1, 1922 as a fellow in surgery. His services to July 1, 1926 included postoperative treatment, six months; general diagnosis, nine months; orthopedic surgery, three months, and operative surgery two years and nine months. He was appointed first assistant in one of the sections in the Division of Surgery August 1, 1924. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Phi Rho Sigma. His address is 120 Main Street, Dubuque, Iowa.

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Bibliography.—1. Empyema. Surg. Clin. N. Amer., 1925, v, 791–806. (With S. W. Harrington.)

Plum, Frank A., B.A., M.D., was born January 21, 1888 in Port Townsend, Washington; received the degree of B.A. from the University of Washington in 1911, and of M.D. from the University of Pennsylvania in 1915, and was intern in Queen's Hospital, Honolulu, from 1915 to 1916. He entered The Mayo Foundation May 22, 1916 as a fellow in surgery; his services included general diagnosis, eleven months, and orthopedic diagnosis, three months. He left the Mayo Foundation August 7, 1917 to enter military service, and later practiced medicine in Seattle. He is now practicing in Cosmopolis, Washington. He is a member of King County Medical Society, Grays Harbor Medical Society, the American Medical Asso-

Frank A. Plum

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Plummer, Henry S., M.D., F.A.C.P., was born March 3, 1874 in Hamilton, Minnesota; took premedical courses at the University of Minnesota; received the degree of M.D. from Northwestern University, Chicago, in 1898, and practiced in Racine, Minnesota, from 1898 to 1901. He came to the Mayo Clinic in 1901 as a member of the permanent staff, and is now chief of the Division of Medicine, Mayo Clinic. He is professor of medicine, The Mayo Foundation, Graduate School, University of Minnesota. He is a member of the Olmsted County Medical Society, the Southern Minnesota Medical Association, the Minnesota State Medical Association, the Minnesota Pathologic Society, the Medical Library Association of America, the American Medical Association, the American College of Physicians, the Association of American Physicians, the Association for the Study of Internal Secretions, the American Association for Thoracic Surgery, the American Association for the Advancement of Science, the Central Interurban Clinical Club, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Sigma Xi. He married Daisy Berkman October 4, 1904. His address is Rochester, Minnesota.

Henry S. Plummer

Bibliography.—1. Cardiospasm, with a report of cases. Jour. Minn. State Med. Assn. and Northwest. Lancet, 1906, xxvi, 419–424.
2. Cardiospasm, with a report of forty cases. Jour. Am. Med. Assn., 1908, li, 549–554.
3. Diverticula of the esophagus, with a report of six cases. Northwest. Lancet, 1909, xxix, 270–274.
4. The value of a silk thread as a guide in esophageal technique. Surg., Gynec., and Obst., 1910, x, 519–523.
5. The technic of the examination of esophageal lesions. Tr. Sec. Surg., Am. Med. Assn., 1910, 345–353.
6. Esophageal obstructions, with especial reference to carcinoma. Journal-Lancet, 1912, xxxii, 32–34.
7. Diffuse dilatation of the esophagus without anatomic stenosis (cardiospasm). A report of ninety-one cases. Jour. Am. Med. Assn., 1912, lviii, 2013–2015.
8. The clinical and pathologic relationships of hyperplastic and nonhyperplastic goiter. Jour. Am. Med. Assn., 1913, lxi, 650–651.
9. The clinical and pathological relationship of simple and exophthalmic goiter. Am. Jour. Med. Sc., 1913, cxlvi, 790–795.
10. Recognition and treatment of exophthalmic goiter. Read before Penn. State Medical Soc., September 23, 1913.

11. Blood-pressure and thyrotoxicosis. Tr. Assn. Am. Phys., 1915, xxx, 450–457.
12. Goiter and life expectancy. Lancet-Clinic, 1915, cxiii, 649–651. (With C. H. Mayo.)
13. The function of the thyroid, normal and abnormal. Tr. Assn. Am. Physicians, 1916, xxxi, 128–133.
14. Classification of goiters. Med. Rec., 1919, xcv, 1074–1075. (Abst.)
15. Thyroid disease. Jour. Am. Med. Assn., 1919, lxxiii, 1466. (Abst.)
16. The function of the thyroid gland. Med. Rec., 1919, xcvi, 526. (Abst.)
17. Symposium on goiter: thyroid disease. Med. Rec., 1919, xcvi, 780.
18. Thyroid diseases. New York Med. Jour., 1920, cxi, 41–42. (Abst.)
19. The clinical interpretation of basal metabolic rate estimations. Med. Rec., 1920, xcvii, 803–804. (Abst.)
20. Calorigenic action of thyroxin. Collected Papers Mayo Clinic, Philadelphia, Saunders, 1921, xiii, 481–483. (With W. M. Boothby.)
21. Specific dynamic action of thyroxin. Am. Jour. Physiol., 1921, lv, 295–296. (With W. M. Boothby.)
22. Cardiospasm: A report of 301 cases. Med. Clin. N. Amer., 1921, v, 335–369. (With P. P. Vinson.)
23. Interrelationship of the function of the thyroid gland and of its active agent, thyroxin, in the tissues of the body. Jour. Am. Med. Assn., 1921, lxxvii, 243–247, 475. Abstract, Tr. Assn. Res. and Ex-Res. Phys. Mayo Clinic, 1921, ii, 137–146; Med. Rec., 1912, xcix, 1076–1077.
24. Functions of the normal and abnormal thyroid gland. The Oxford Medicine, New York, Oxford Univ. Press, 1922, iii, 839–873.
25. The cost of work in exophthalmic goiter. Am. Jour. Physiol., 1923, lxiii, 406–407. (With W. M. Boothby.)
26. The administration of thyroid preparations. Jour. Am. Med. Assn., 1924, lxxxiii, 1333–1335. (With W. M. Boothby.)
27. The value of iodin in exophthalmic goiter. Illinois Med. Jour., 1924, xlvi, 401–407; Jour. Iowa State Med. Soc., 1924, xiv, 66–73. (With W. M. Boothby.)
28. Medical treatment of hyperthyroid cases. (Abstract.) Tr. Assn. Res. and Ex-Res. Phys. Mayo Clinic, 1924, v, 66–67.
29. The function of the thyroid gland. Beaumont Lecture. St. Louis, C. V. Mosby Company, 1926.

Plummer, William A., M.D., was born June 30, 1883 in Racine, Minnesota, and received the degree of M.D. from Northwestern University, Chicago, in 1910. He came to the Mayo Clinic in June, 1910 as assistant in one of the sections in the Division of Medicine, and became head of a section February 1, 1917. He is assistant professor of medicine, The Mayo Foundation Graduate School, University of Minnesota. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the Southern Minnesota Medical Association, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Corena Popple August 29, 1911. His address is Rochester, Minnesota.

William A. Plummer

Bibliography.—1. Tumor of the middle cranial fossa involving the gasserian ganglion. Jour. Am. Med. Assn., 1914, lxii, 1082–1083. (With G. B. New.)
2. Some phases of the differential diagnosis of exophthalmic goiter. St. Paul Med. Jour., 1916, xviii, 297–300.
3. The blood picture in exophthalmic goiter. Minn. Med., 1919, ii, 330–332.
4. Tuberculosis of the thyroid. Jour. Am. Med. Assn., 1919, lxxiii, 1464. (With A. C. Broders.) Minn. Med., 1920, iii, 279–283.
5. Clinical features of thyroid disease. Ann. Clin. Med., 1923, i, 259–260.
6. Iodin in the treatment of goiter. Med. Clin. N. Amer., 1925, viii, 1145–1151.
7. The early recognition of adenoma of the thyroid gland with hyperthyroidism and of exophthalmic goiter. Med. Insurance, 1925, xli, 239–247.

Pollock, Lee W., B.S., M.D., was born February 7, 1887 at Evansville, Minnesota; received the degree of B.S. in 1911, and of M.D. in 1912, from the University of Minnesota, and was intern at the City and County Hospital, St. Paul, Minnesota, from December, 1912 to December, 1913. He came to the Mayo Clinic in November, 1914 as a member of the clinical staff; he was appointed associate in one of the sections in the Division of Medicine, and April 1, 1925 was made head of a new section in the Division of Medicine, He is assistant professor in medicine, The Mayo Foundation, Graduate School, University of Minnesota. During the war he was First Lieutenant in the Medical Corps, U. S. A., and served on the Board

Lee W. Pollock

of Examiners for Tuberculosis in various camps. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the Southern Minnesota Medical Association, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Adelaide Baihly June 14, 1916. His address is Rochester, Minnesota.

Bibliography.—1. Diverticulitis of the colon. Ann. Surg., 1924, lxxx, 425–438. (With E. S. Judd.)

Pontius, S. Gilmore, Ph.B., M.D., F.A.C.S., was born January 27, 1892 in Martinsburg, Pennsylvania; received the degree of Ph.B. from Franklin and Marshall College, Lancaster, Pennsylvania, in 1914, and of M.D. from the University of Pennsylvania, Philadelphia, in 1918, and was intern in the Lancaster General Hospital from July, 1918 to July, 1919. He entered The Mayo Foundation as a fellow in surgery July 28, 1919; his services included general diagnosis, seven and one-half months; orthopedic diagnosis, three months; medical hospital residence, three months; postoperative treatment, six months; general surgery, twelve months, and regional anesthesia, three months. He left The Mayo Foundation July 1, 1922 to practice in Lancaster, Pennsylvania. He is a member of the Lancaster City Medical Society, the Lancaster County Medical Society, the Medical Society of the State of Pennsylvania, the American Medical Association, the American College of Surgeons, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Phi Alpha Sigma. He married Helen B. Holman April 5, 1924. His address is 320 North Lime Street, Lancaster, Pennsylvania.

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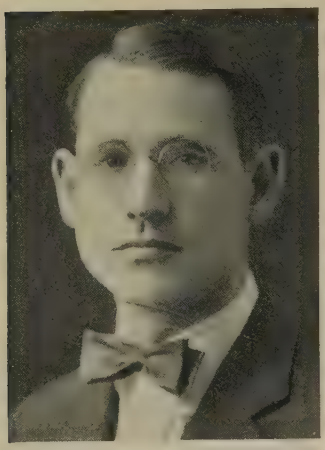
Roy W. Porteus

Bibliography.—1. The nose and throat in the etiology of general diseases. Wisconsin Med. Jour., 1915, xiv, 191–197.

Potter, James C., B.A., M.D., M.S. in surgery, was born March 15, 1898 in Rochester, New York; attended the University of Rochester; received the degree of B.A. in 1919 from Yale University, of M.D. in 1921 from Johns Hopkins University, and of M.S. in Surgery in 1925 from the University of Minnesota; was intern at Johns Hopkins Hospital in 1921 and 1922; was with Dr. Wilfred T. Grenfell in Labrador the summer of 1921, and did medical work in Guatemala, Central America, the summer of 1922. He entered The Mayo Foundation October 1, 1922 as a fellow in surgery. His services included pathologic anatomy, six months; surgical pathology, six months; general diagnosis with part time research work in experimental physiology, six months; urology, nine months, and operative surgery, six months. He left The Mayo Foundation July 7, 1925, and is now practicing medicine in Rochester, New York. He is a member of the Monroe County Medical Society, the Medical Society of the State of New York, Delta Kappa Epsilon, Nu Sigma Nu, Phi Beta Kappa, and Sigma Xi. He married Mary B. Greer September 15, 1923. His address is 561 University Avenue, Rochester, New York.



James C. Potter

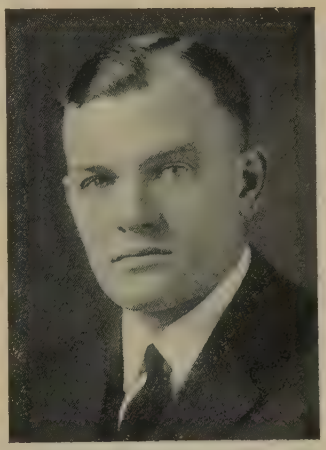
Bibliography.—1. A mechanical method for recording small variations in pressure and volume. Jour. Lab. and Clin. Med., 1924, ix, 648–650.

2. Pressure changes in the biliary tract. Am. Jour. Med. Sc., 1926, clxxi, 202–217. (With F. C. Mann.)

3. The effect of section of both sacral nerves on intravesical pressure. An experimental study. Jour. Urol., 1926, xv, 197–200.

4. The finger lakes of New York State. Rochester Auto Club Jour., 1926.

Powell, Lester D., B.A., M.D., M.S. in Surgery, was born March 18, 1891 in Villisca, Iowa; received the degree of B.A. in 1915, and of M.D. in 1918, from the University of Iowa, and of M.S. in Surgery in 1922 from the University of Minnesota; and was surgical intern at the University of Iowa Hospital, Iowa City, from 1918 to 1919. He entered The Mayo Foundation July 1, 1919 as a fellow in surgery; his services included general diagnosis, one year; medical hospital residence, three months; surgical pathology, six months (part time three months); proctology, three months, and surgery, two years and six months. From January 1, 1923 to January 1, 1924 he was first assistant in the Section on Obstetrics, Mayo Clinic, and was first assistant in one of the sections on surgery until he left the Clinic September 1, 1926. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Sigma Alpha Epsilon, and Nu Sigma Nu. His address is 802 Bankers Trust Building, Des Moines, Iowa.



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Bibliography.—1. The relationship of cellular differentiation, fibrosis, hyalinization, and lymphocytic infiltration to postoperative longevity of patients with squamous-cell epithelioma of the skin and lip. Jour. Cancer Res., 1922, vii, 371–378.

2. Blood transfusion: indications and methods. Tr. Assn. Res. and Ex-Res. Phys. Mayo Clinic, 1925, vi, 45–68; Jour. Iowa State Med. Soc., 1926, xvi, 180–185.

Power, Marschelle H., A.B., M.S., Ph.D., was born September 1, 1894 in Edgar, Nebraska; received the degrees of A.B. in 1917, M.S. in 1921, and Ph.D. in 1923, from the University of Nebraska, Lincoln; was an assistant in the laboratory and teacher of general chemistry at the University of Nebraska from 1919 to 1923, and National Research Fellow in Chemistry at the University of Chicago from 1923 to 1924. He came to the Mayo Clinic October 1, 1924 as first assistant in the Section on Biochemistry. He is a member of the American Chemical Society, Acacia, Alpha Chi Sigma (Chemical), Phi Lambda Upsilon (Chemical), Phi Beta Kappa, and Sigma Xi. He married Ruth A. Henninger August 9, 1920. His address is Rochester, Minnesota.

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Bibliography.—1. The oxidation of *d*-glucose by air in calcium hydroxid solution. Jour. Am. Chem. Soc., 1926, xlviii, 195–202. (With F. W. Upson.)

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Avery DeH. Prangen

Bibliography.—1. Spasm of the accommodation with report of thirty cases. Tr. Sect. Ophth., Am. Med. Assn., 1922, 282–292.

2. Early care of cross-eyed children. Med. Clin. N. Amer., 1925, viii, 1221–1225.

Prickman, Louis E., B.S., M.D., was born May 19, 1897 in Navarre, Ohio; received the degree of B.S. in 1921, and of M.D. in 1923, from the University of Pittsburgh, and was intern at Mercy Hospital, Pittsburgh, from July, 1923 to July 1, 1924, when he entered The Mayo Foundation as a fellow in medicine. His services to January 1, 1926 included general diagnosis, nine months; medical hospital service, six months, and pathologic anatomy, three months. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the American Medical Association, Phi Rho Sigma, and Alpha Omega Alpha. His address is Rochester, Minnesota.

Louis E. Prickman

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Oscar S. Proctor

Bibliography.—1. Multiple gastric ulcers. Med. Jour. and Rec., 1925, cxxi, 93–95. (With E. S. Judd.)

2. Chronic peptic ulcer in children. Surg., Gynec., and Obst., 1925, xli, 63–69; Abstract, Tr. Assn. Res. and Ex-Res. Phys. Mayo Clinic, 1924, v, 59.

Pulford, D. Schuyler, Jr., B.S., M.D., M.S. in Pathology, was born February 3, 1892 in Tacoma, Washington; received the degree of B.S. from Trinity College, Hartford, Connecticut, in 1912, of M.D. from Johns Hopkins University, Baltimore, in 1917, and of M.S. in Pathology from the University of Minnesota in 1925; was instructor in chemistry and mathematics at a private boarding school one year; served as First Lieutenant in the Medical Corps, U. S. A., from June, 1918 to December, 1919, and was intern in the Henry Ford Hospital, Detroit, thirty months (assistant in the Nose and Throat Department, six months). He entered The Mayo Foundation as a fellow in otolaryngology July 15, 1921, but transferred his major to pathology in January, 1922; his services included surgical pathology, three years and three months; medical hospital service, six months, and general diagnosis, nine months. He left The Mayo Foundation January 1, 1926, and is now an associate in medicine and director of the laboratories at the Woodland Clinic, Woodland, California. He is a member of the Yolo County Medical Society, the California Medical Association, the American Society of Clinical Pathologists, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Delta Psi, and the Ptolemy Club (Baltimore). He married Olive I. Day October 7, 1922. His address is Woodland Clinic, Woodland, California.

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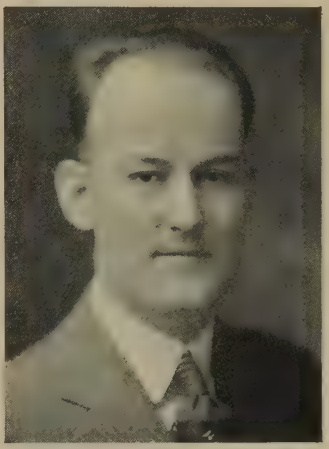
Bibliography.—1. Experimental hydronephrosis. Functional and anatomical changes in the kidney following partial urethral obstruction. Arch. Int. Med., 1917, xx, 853–878. (With N. M. Keith.)

2. Chloride retention in experimental hydronephrosis. Jour. Exper. Med., 1923, xxxvii, 175–186. (With N. M. Keith.)

3. Neoplasms of the blood-lymph vascular system with special reference to endotheliomas. Ann. Surg., 1925, lxxxii, 710–727.

4. Surgical removal and pathologic study of a massive squamous-cell epithelioma associated with angioma of the scalp. Surg., Gynec., and Obst., 1926, xlii, 846–848.

Quay, John E., B.A., M.D., was born June 23, 1890 at Waco, Texas; received the degree of B.A. from Baylor University, Waco, Texas, in 1912, and of M.D. from the University of Pennsylvania in 1917, and was intern at the Episcopal Hospital and the Kensington Hospital for Women, in Philadelphia, in 1917. He was commissioned Lieutenant in the Medical Corps, U. S. A., and was later advanced to Captain, A. E. F., with two years' active service in France. He entered The Mayo Foundation as a fellow in surgery in June, 1919; his services included general diagnosis, thirteen months; neurology, six months; postoperative treatment, two months; surgery, five months, and experimental surgery and pathology, eight months. Certain services overlapped. He left The Mayo Foundation June 1, 1921, and is practicing in Waco, Texas. He is a member of the Texas Railway Surgeons' Association, the Texas State Medical Association, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Mary I. Thornburrow June 23, 1920. His address is 605 Columbus Avenue, Waco, Texas.



John E. Quay

Bibliography.—1. The surgical treatment of goiter. Texas State Jour. Med., 1922, xviii, 208–213.

2. Disease of the biliary tract and associated viscera. Texas State Jour. Med., 1924, xix, 601–605.

Quillen, Emile B., M.D., was born June 26, 1881 at Harrington, Delaware; took premedical courses at the University of Delaware, and received the degree of M.D. from the University of Maryland in 1904; was intern at the University of Maryland Hospital from 1903 to 1905, and at the Atlantic Coast Line Railway Hospital, Rocky Mount, North Carolina, from 1905 to 1908; was assistant chief surgeon for the Atlantic Coast Line Railway Company from 1908 to 1911, and engaged in private practice in Rocky Mount, North Carolina, from 1911 to 1916. He entered The Mayo Foundation as a special student in laryngology and rhinology June, 1916; his services included laryngology and rhinology, six months, and laryngology, oral and plastic, seven months. He left the Foundation in August, 1917, and established a practice in diseases of the ear, nose, and throat at Rocky Mount, North Carolina. During the war he was on the Medical Advisory Board of the sixth district, North Carolina. He is a member of the North Carolina State Medical Association, the Southern Medical Association, the Tri-State

Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Leila Owings October 18, 1910. His address is Rocky Mount, North Carolina.

Bibliography.—1. Bacteriology of the blood in typhoid fever. Jour. Am. Med. Assn., 1906, xlvi, 1922–1925. (With J. L. Hirsch and W. V. S. Levy.)

Randall, Lawrence M., M.D., was born August 12, 1895 in La Moille, Iowa; received the degree of M.D. in 1921 from the University of Iowa; was intern at the University Hospital, Iowa City, from 1921 to 1923, and came to the Mayo Clinic January 1, 1924 as first assistant in the Section on Obstetrics. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Phi Kappa Sigma, and Nu Sigma Nu. He married Faith Meek March 29, 1922. His address is Rochester, Minnesota.

Lawrence M. Randall

Bibliography.—1. Vaginoscopy in the treatment of gonorrheal infection of the lower genital tract in infants and young girls. Am. Jour. Obst. and Gynec., 1924, viii, 345–351.

2. Hypertension: an index to the toxemia of pregnancy. Minn. Med., 1924, vii, 583–586. (With R. D. Mussey.)

3. Acute hydramnios and homologous triplets. Am. Jour. Obst. and Gynec., 1924, viii, 766–770.

4. Observations on dry labor. Minn. Med., 1925, viii, 525–527.

5. The weight factor in pregnancy. Am. Jour. Obst. and Gynec., 1925, ix, 529–535.

6. Tubal inflation in a case of sterility. Med. Clin. N. Amer., 1925, viii, 1137–1143.

Ranfranz, Oscar E., D.D.S., was born March 27, 1898 in Rochester, Minnesota; received the degree of D.D.S. in 1924 from Northwestern University Dental School, Chicago, and entered The Mayo Foundation July 1, 1924 as a fellow in dental surgery. After twenty-three months of service in the Section on Dental Surgery he left The Mayo Foundation to practice dentistry in Sherman, Texas. He is a member of Xi Psi Phi fraternity. His address is Sherman, Texas.

Oscar E. Ranfranz

Rankin, Fred W., B.A., M.A., M.D., F.A.C.S., was born December 20, 1886 in Mooresville, North Carolina; received the degree of B.A. from Davidson College, Davidson, North Carolina, in 1905, of M.D. from the University of Maryland, in 1909, and of M.A. from St. John's College, Baltimore, in 1915, and practiced medicine in Baltimore from 1913 to 1916. He entered The Mayo Foundation November 1, 1916 as a fellow in surgery; his service, which was interrupted by the war, consisted of surgery, four years and seven months. During the war he served as Major with the Medical Corps, A. E. F., being attached to the 4th and 26th Combat Divisions, and later was Commanding Officer of Base Hospital 26. He left The Mayo Foundation January 1, 1923 to become Professor of Surgery of the University of Louisville and Chief of the Surgical Staff of the City Hospital, Louisville, Kentucky. January 1, 1924 he became surgeon to the Lexington Clinic, Lexington, Kentucky. July 1, 1926 he returned to the Mayo Chinic as Head of a Section in the Division of Surgery. He is a member of the American Medical Association, the Southern Surgical Association, the Western Surgical Association, the American College of Surgeons, the Kentucky State Medical Association, the Minnesota

Fred W. Rankin

State Medical Association, the Southern Minnesota Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Edith Mayo June 12, 1923. His address is Rochester, Minnesota.

Bibliography.—1. Gastrojejunocolic fistulas following gastro-enterostomy. Surg. Clin. N. Amer., 1921, i, 1241–1255. (With C. H. Mayo.)
2. Vesico-appendiceal fistula. Report of two cases. Surg., Gynec., and Obst., 1921, xxxii, 153–155. (With E. S. Judd.)
3. Hemangiomas of the gastro-intestinal tract. Ann. Surg., 1922, lxxvi, 28–34. (With E. S. Judd.)
4. Ileostomy following resection of the colon. Surg., Gynec., and Obst., 1922, xxxv, 50–52. (With E. S. Judd.)
5. Lipoma of the perineum. Report of a case. Jour. Am. Med. Assn., 1922, lxxix, 1994–1996. (With A. J. Scholl.)
6. Emphysema of the scrotum the result of diverticulitis of the sigmoid with perforation. Surg., Gynec., and Obst., 1922, xxxv, 310–312. (With E. S. Judd.)
7. Enterostomy in surgery. Kentucky Med. Jour., 1923, xxi, 256–258.
8. A technique for the resection of gastric and duodenal ulcers. Surg., Gynec., and Obst., 1923, xxxvii, 216–220. (With E. S. Judd.)
9. Resection of proximal colon for malignancy. Arch. Surg., 1923, vii, 258–279. (With A. J. Scholl.)
10. Surgery in duodenal ulcer. Kentucky Med. Jour., 1924, xxii, 194–198.
11. Gallstone ileus. Kentucky Med. Jour., 1924, xxii, 236–239. (With A. M. McKeithen.)
12. Hockey-stick incision for inguinal herniorrhaphy. Surg., Gynec., and Obst., 1924, xxxix, 92–93.
13. Choice of operation in cancer of the colon, not including the rectum. Jour. Am. Med. Assn., 1924, lxxxiii, 86–90.
14. Aneurysm of the internal mammary artery. Ann. Surg., 1924, lxxx, 341–346.
15. Fibrosarcoma of the transverse colon. Surg., Gynec., and Obst., 1924, xxxix, 811–817. (With J. C. Crager.)
16. Lymphosarcoma of the small intestines. Ann. Surg., 1924, lxxx, 704–711.
17. Diagnosis of gallbladder infection and its differentiation from gastric and duodenal ulcers. Kentucky Med. Jour., 1925, xxiii, 97–100.
18. Surgery of the left colon. South. Med. Jour., 1925, xviii, 287–290.
19. Factors influencing the increase of cancer in Kentucky. Kentucky Med. Jour., 1925, xxiii, 301–304.
20. Tumors of the urachus. With report of seven cases. Surg., Gynec., and Obst., 1926, xlii, 19–27. (With B. R. Parker.)
21. Surgery of the colon. (Surgical monographs.) New York, D. Appleton and Company, 1926, 366 pp.

Redelings, Leslie H., B.S., M.S., M.D., was born March 12, 1888 at Marinette, Wisconsin; received the degree of B.S. in 1909, and of M.S. in 1910, from Northwestern University, Chicago, and of M.D. in 1914 from Johns Hopkins University, Baltimore; and was intern in gynecology at Johns Hopkins Hospital from September 1, 1914 to August 31, 1915. He entered The Mayo Foundation October 1, 1915 as a fellow in surgery; his services included pathologic anatomy, nine months; general diagnosis, thirteen months; surgery, ten months, and roentgenology, one month. He left The Mayo Foundation June 1, 1918 to enter the army. He served as First Lieutenant, Medical Corps, A. E. F., stationed at Base Hospital 58. From May, 1919 to November, 1920 he practiced at Marinette, Wisconsin. Since then he has been practicing at San Diego, California. He is a member of the San Diego County Medical Society, the Southern California Medical Society, the Medical Society of the State of California, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Gertrude P. Abbott September 8, 1915. His address is 704 Electric Building, San Diego, California.

Leslie H. Redelings

Bibliography.—1. A case of renal stone in a lone functioning kidney. Bull. San Diego Co. Med. Soc., iii, 5–6.

Reeves, Thaddeus B., B.S., M.D., M.S. in Surgery, F.A.C.S., was born November 5, 1885 at Laurens, South Carolina; received the degree of B.S. from Clemson College, South Carolina, in 1909, of M.D. from the University of Virginia in 1914, and of M.S. in Surgery from the University of Minnesota in 1919; was intern at the University of Virginia Hospital from 1914 to 1915, and an instructor in anatomy at the University of Virginia from 1914 to 1916. He entered The Mayo Foundation April 1, 1916; his services included pathologic anatomy, six months; general diagnosis, one year; urology, three months, and surgery, three years. He left the Foundation December 1, 1920, and is practicing surgery at Greenville, South

Thaddeus B. Reeves

Carolina. He is a member of the South Carolina Medical Association, the Tri-State Medical Association, the Association of Southern Railway Surgeons, the American Medical Association, the American College of Surgeons, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. His address is 324 North Main Street, Greenville, South Carolina.

Bibliography.—1. On the presence of interstitial cells in the chicken's testis. Anat. Rec., 1915, ix, 383–386.
2. A double umbilicus. Anat. Rec., 1915, x, 15–16.
3. A study of the arteries supplying the stomach and duodenum and their relation to ulcer. Surg., Gynec., and Obst., 1920, xxx, 374–385.
4. Fracture-dislocation of the spine. Internat. Jour. Surg., 1922, xxxv, 229–231.

Reid, George C., M.D., was born August 23, 1878 in Westernville, New York; attended the University of Vermont from 1898 to 1900; received the degree of M.D. from Baltimore Medical College in 1902; was extern in the Maryland General Hospital, Baltimore, six months in 1902, and practiced medicine from 1902 to 1905. He came to the Mayo Clinic as surgical assistant July 1, 1905, was surgical and urological assistant from January to July, 1907, and clinical assistant from July to October, 1907, when he left the Clinic to practice surgery in Rome, New York. He is a member of the New York Academy of Medicine, the Oneida County Medical Society, the Medical Society of the State of New York; the New York Academy of Medicine, the Interstate Clinical Association, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Alpha Kappa Kappa. He married Theodate Nowell October 28, 1908. His address is 219 North Washington Street, Rome, New York.

George C. Reid

Bibliography.—1. Report of some interesting cases of goiter. Internat. Jour. Med. and Surg., 1924, xxxvii, 145–151.
2. Complete hysterectomy. Internat. Jour. Med. and Surg., 1924, xxxvii, 391–393.

Reid, J. Spence, B.A., M.B., was born December 26, 1893 in Tillsonburg, Ontario; received the degree of B.A. from Victoria College, Toronto, in 1914, and of M.B. from the University of Toronto in 1920, and practiced in Tillsonburg from 1920 to 1921. From 1915 to 1918 he served as Captain, Infantry, Battalion 5, South Staffordshire Regiment, in England, Ireland, and France, and since 1918 has been honorary Captain, Territorial Force Reserve, of England. He was decorated with the Military Cross in 1918. He entered The Mayo Foundation January 1, 1922 as a fellow in surgery; his services included general diagnosis, nine months; medical hospital residence, three months; pathologic anatomy, six months, orthopedics, three months; orthopedic surgery, three months; roentgenology, three months, and operative surgery, twenty-one months with part time (three months) in regional anesthesia and experimental pathology. From October 1, 1924 to January 1, 1926 he was first assistant in one of the sections of the Division of Surgery. He left the Mayo Foundation April 1, 1926, and is now practicing surgery in Toronto. He is a member of the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Alpha Kappa Kappa, and Alpha Omega Alpha. His address is Lockwood Clinic, Toronto, Ontario.

J. Spence Reid

Bibliography.—1. Recent progress in surgery. Internat. Clin., 1926, s. 36, i, 289–304. (With D. C. Balfour.)

Renshaw, Kinsley, B.A., M.D., M.S. in Surgery, was born July 23, 1891 in Monona, Iowa; attended Carleton College, Northfield, Minnesota, from 1909 to 1911; received the degree of B.A. in 1912, of M.D. in 1916, and of M.S. in Surgery in 1922, from the University of Minnesota; and was intern in the Minneapolis City Hospital from June, 1916 to August, 1917. He entered The Mayo Foundation as a fellow in surgery February 25, 1919; his services included general diagnosis, nine months; surgical pathology, six months; surgery, fifteen months; orthopedic diagnosis, three months, and roentgenology, three months. During the war he was First Lieutenant, Medical Reserve Corps, U. S. A., stationed at Fort Riley, Kansas. He left The Mayo Foundation July 1, 1922 to practice surgery in Toledo, Ohio. He is a member of the Lucas County Medical Society, the Ohio State Medical Association, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Phi Kappa Psi, and Nu Sigma Nu. His address is Toledo Medical Building, 316 Michigan Street, Toledo, Ohio.

Kinsley Renshaw

Bibliography.—1. Malignant neoplasia in the gallbladder. Ann. Surg., 1921, lxxiv, 700–720. (With J. A. H. Magoun, Jr.)

2. Malignant neoplasms of extrahepatic biliary ducts. Ann. Surg., 1922, lxxvi, 205–221.

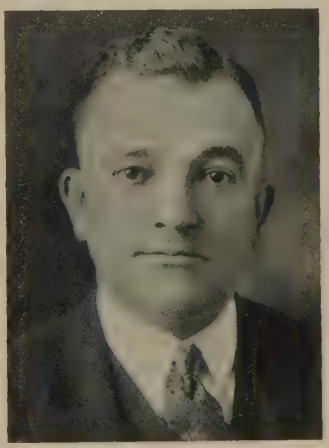
Rice, George E., B.A., M.D., was born February 27, 1889 in Belton, South Carolina; received the degree of B.A. from Furman University, Greenville, South Carolina, in 1909; attended Springfield College for Physical Directors, Springfield, Massachusetts, from 1909 to 1911; was physical director at the Y. M. C. A., Manila, Philippine Islands, from 1911 to 1914; received the degree of M.D. from the University of Pennsylvania in 1918, and was intern at the Bryn Mawr Hospital, Pennsylvania, from June, 1918 to June, 1919. During the war he was Second Lieutenant in the U. S. N. R. F. He entered The Mayo Foundation October 5, 1919 as a fellow in surgery; his services included orthopedic diagnosis, three months; general

George E. Rice

diagnosis, one year; postoperative treatment, three months; roentgenology, three months; operative surgery, one year, and regional anesthesia, three months. He left the Mayo Foundation April 1, 1923, and is now surgeon at the Pueblo Clinic, Pueblo, Colorado. He is a member of the Pueblo County Medical Society, the Colorado State Medical Society, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Phi Alpha Sigma. He married Alwildia Chase August 26, 1916. His address is Pueblo Clinic, Pueblo, Colorado.

Bibliography.—1. Mortality following orchidectomy for malignant testicle. Colorado Med., 1924, xxi, 196–198.
2. Local anesthesia. Colorado Med., 1925, xxii, 57–61.
3. Cryptorchidism. Colorado Med., 1925, xxii, 243–244.

Richards, Cyril G., M.D., was born August 24, 1884 in Bridgetown, Barbadoes, West Indies; received the degree of M.D. from Tufts College, Medford, Massachusetts, in 1910; was intern from 1910 to 1911, and resident surgeon from 1914 to 1918 in Long Island Hospital, Boston; and from 1912 to 1914 was intern in the Boston State Hospital, Department of Neurology and Psychiatry. During the war he served as First Lieutenant in the Medical Reserve Corps at Fort Strong, Boston. He entered The Mayo Foundation May 1, 1918 as a special student in urology; his services included urology, one year, and surgery, six months. He left The Mayo Foundation, November 1, 1919. He was assistant to Dr. J. H. Cunningham, Boston, until 1922, and is now urologist at the Kenosha Clinic, Kenosha, Wisconsin. He is a member of the Massachusetts Medical Society, the Kenosha County Medical Society, the State Medical Society of Wisconsin, the American Urological Association, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Phi Chi. He married Eileen A. Norton June 10, 1920. His address is the Kenosha Clinic, Kenosha, Wisconsin.



Cyril G. Richards

Bibliography.—1. Secondary melano-epithelioma of the bladder. Surg., Gynec., and Obst., 1919, xxix, 266.
2. Fistulæ of the bladder. Wisconsin Med. Jour., 1925, xxiv, 63–66.

Richards, Ralph T., M.D., was born September 15, 1880 in Salt Lake City; received the degree of M.D. from New York University, New York City, in 1903; and was intern in Bellevue Hospital, New York City, from June, 1904 to January, 1906. He entered the Mayo Clinic February 1, 1906 as surgical assistant, remaining until June, 1906; practiced in Salt Lake City from July, 1906 to January, 1914, and was assistant to Dr. Otto Schultz of the pathology department, Cornell University, Ithaca, New York, from October, 1910 to June, 1911. He reëntered the Mayo Clinic January 1, 1914, and completed ten months' service as surgical assistant. He left the Mayo Clinic in July, 1914, to become attending surgeon at the Latter Day Saints' Hospital, Salt Lake City. He is a member of the Alumni Association of Bellevue Hospital (New York City), the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Rhada W. Gibbs July 3, 1916. His address is 115 East South-Temple Street, Salt Lake City, Utah.

Ralph T. Richards

Richdorf, Lawrence F., B.S., M.B., M.D., Ph.D., was born August 25, 1891 in Kellnersville, Wisconsin; received the degree of B.S. in 1917 from the University of Wisconsin, and the degrees of M.B. in 1920, M.D. in 1921, and Ph.D. in 1925, from the University of Minnesota; was intern at the University Hospital in Minneapolis for six months, and held a fellowship in pediatrics at the University of Minnesota from January, 1921 to July 1, 1922, when he entered The Mayo Foundation as a fellow in pediatrics. After one year of service in the Section on Pediatrics he left The Mayo Foundation to complete his fellowship at the University of Minnesota Medical School. Since July, 1924 he has been an instructor in pediatrics at the University of Minnesota, and is also practicing pediatrics in Minneapolis. He is a member of the Hennepin County Medical Society, the Minnesota State Medical Association, the American Medical Association, the Northwestern

Lawrence F. Richdorf

Pediatric Society, the Central States Pediatric Society, and Phi Beta Pi. He married Anna M. Coleman June 27, 1921. His address is 820 Donaldson Building, Minneapolis, Minnesota.

Bibliography.—1. The growth of the normal child in the first year. (Unpublished thesis, 1925.)

2. Available data influencing the disposition of the suspected tuberculous child. Tr. Nat. Tuberculosis Assn., 1925, xxi, 274–277.

3. Polyarthritis. Report of a case in an infant six days old, associated with acute rheumatic fever in the mother. Am. Jour. Dis. Child., 1926, xxxi, 250–252. (With W. H. Griffith.)

Ristine, Earle F., M.D., was born January 27, 1885 in Clay Center, Kansas; attended Great Western College, Webb City, Missouri; received the degree of M.D. from Northwestern University, Chicago, in 1910; was intern at the Contagious Hospital, Chicago, from July, 1910 to April, 1911, and at the City Hospital, Seattle, from April, 1911 to February, 1913, and practiced at Coupeville, Washington, from February, 1913 to July, 1917. From July, 1917 to June, 1919 he served as First Lieutenant, Medical Corps, U. S. A. He entered The Mayo Foundation September 1, 1919 as a special student in urology; his services included urology, thirteen months; syphilology and dermatology, six months, and radium therapy three months. He left the Foundation July 5, 1921, and is practicing in Seattle, Washington. He is a member of the King County Medical Society (Washington), the Northwest Urological Society, the Polyclinic, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Lucinda Wilson June 29, 1912. His address is 509 American Bank Building, Seattle, Washington.

Earle F. Ristine

Rivers, Andrew B., M.D., was born December 10, 1894 in Rollingstone, Minnesota; attended St. Francis College, St. Francis, Wisconsin, from 1906 to 1913; received the degree of M.D. from Creighton University, Omaha, in 1917; was intern at the City and County Hospital, St. Paul, from July, 1917 to October, 1918; served as Lieutenant in the Marine Corps, U. S. N., at the U. S. Marine Barracks, Norfolk, Virginia, during the war, and was assistant in medicine at the University of Minnesota from May to November, 1919. He entered The Mayo Foundation January 15, 1920 as a fellow in medicine; his services have included general diagnosis, two years and nine months; diagnosis and medical research, nine months (part time), and neurology, six months. Since July 1, 1923 he has been first assistant in one of the sections on medicine, Mayo Clinic, and is an instructor in medicine, The Mayo Foundation, Graduate School, University of Minnesota. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Phi Beta Pi. His address is Rochester, Minnesota.

Andrew B. Rivers

Bibliography.—1. Toxic manifestations following the alkaline treatment of peptic ulcer. Arch. Int. Med., 1923, xxxi, 171–180. (With L. L. Hardt.)

2. Recurring epileptiform attacks with symptoms of spasm at the cardia: report of three cases. Med. Clin. N. Amer., 1925, viii, 1341–1349. (With W. H. Bueermann.)

3. Recurring peptic ulcer. Ann. Clin. Med., 1925, iv, 365–378. (With G. B. Eusterman.)

Robertson, Harold E., B.A., M.D., was born October 8, 1878 in Waseca, Minnesota; received the degree of B.A. from Carleton College, Northfield, Minnesota, in 1899, and of M.D. from the University of Pennsylvania in 1905; was intern at the University of Pennsylvania Hospital, four months; assistant to Dr. Richard Pearce, of Albany, New York, and an instructor in pathology, Albany Medical College, from 1905 to 1906; assistant pathologist, Boston City Hospital, from 1906 to 1907; an instructor in pathology, Harvard University, in 1907 (resigned); was appointed an instructor in pathology and bacteriology in 1907, assistant professor of pathology and bacteriology in 1909, associate professor in 1910, and professor of pathology from 1914 to 1921, University of Minnesota. He was also director of the Department of Pathology, Bacteriology, and Public Health at the University from 1917 to 1921. He took courses in pathology at the University of Berlin and the University of Freiburg from 1914 to 1915. From 1917 to 1919 he was Major in the Medical Corps, A. E. F., stationed at Army Laboratory 1 for six months; at the Central Medical Department Laboratory at Dijon, six months, and was consulting pathologist in the district of Paris for six months. July 1, 1921 he was appointed head of the Section on Pathologic Anatomy, Mayo Clinic, and professor of pathology, The Mayo Foundation, Graduate School, University of Minnesota. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the Minnesota Academy of Medicine, the American Association of Pathologists and Bacteriologists, the American Medical Association, the International Association of Medical Museums, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Sigma Xi, Phi Beta Kappa, and Alpha Omega Alpha. He married Edith Ellam July 31, 1907. His address is Rochester, Minnesota.

Harold E. Robertson

Bibliography.—1. The effect of the *x*-rays on living tissues. Albany Med. Ann., 1906, xxvii, 655–663.

2. Phlegmonous gastritis: a report of two cases. Jour. Am. Med. Assn., 1907, xlix, 2143–2146.

3. Pathology and bacteriology of acute anterior poliomyelitis. Arch. Int. Med., 1910, vi, 233–269. (With A. J. Chesley.)

4. Death certificates: a review of the subject as viewed from the postmortem room. Journal-Lancet, 1911, xxxi, 62–65.

5. The ideal museum. International Assn. Med. Mus. Bull. IV, 1913, 12–15.

6. A convenient Kaiserling bath cabinet. Internat. Assn. Med. Mus. Bull. IV, 1913, 40–41.
7. Problems confronting the organization of a University Public Health Service. Tr. Fourth International Congress on School Hygiene, 1913, v, 140.
8. Chemical tests for occult blood. Journal-Lancet, 1913, xxxiii, 210–212.
9. Studies of the necrosis following injections of salvarsan and neosalvarsan. Jour. Am. Med. Assn., 1913, lxi, 1698–1702.
10. Experimental data on the intramuscular administration of antisyphilitic drugs. Journal-Lancet, 1914, xxxiv, 346–351.
11. The public health museum, its possibilities and uses. Internat. Assn. Med. Mus. Bull. V, 1915, 30–33.
12. Ueber die "Fibrillentheorie" und andere Fragen der Toxin and Antitoxinwanderung beim Tetanus. Med. Klin., 1915, xi, 715, 744. (With L. Aschoff.)
13. Ein Fall von Ganglioneurom am Boden des dritten Ventrikels mit Einbeziehung des Chiasma opticum. Virchow's Arch. f. path. Anat., 1915, ccxx, 80–94.
14. Das Ganglioneuroblastom, ein besonderer Typus im System der Neurome. Virchow's Arch. f. path. Anat., 1915, ccxx, 147–168.
15. A new method for the prophylactic application of tetanus antitoxin. Jour. Am Med. Assn., 1915, lxv, 793–794.
16. Pathological laboratories of Great Britain. Journal-Lancet, 1915, xxxv, 533–538.
17. The present status of magnesium sulphate in the treatment of tetanus. Arch. Int. Med., 1916, xviii, 677–703.
18. The prophylactic use of tetanus antitoxin. Am. Jour. Med. Sc., 1916, cli, 668–692.
19. The therapeutic possibilities of antitetanus serum. Am. Jour. Med. Sc., 1916, cli, 811–821.
20. The distribution of tetanus toxin in the body. Am. Jour. Med. Sc., 1916, clii, 31–48
21. The prevention and treatment of tetanus. Journal-Lancet, 1916, xxxvi, 388–390.
22. Lipoma myxomatodes. Jour. Med. Res., 1916, xxxv, 131–146.
23. The rôle of organic acids in the preservation of specimens. Internat. Assn. Med. Mus. Bull. VI, 1916, 54.
24. Some suggestions for equipping a postmortem room. Internat. Assn. Med. Mus. Bull. VI, 1916, 38–41.
25. Influenzal sinus disease and its relation to epidemic influenza. Jour. Am. Med. Assn., 1918, lxx, 1533–1535.
26. Pathology with demonstrations. Journal-Lancet, 1919, xxxix, 273–274.
27. Selected demonstrations in heart pathology. Journal-Lancet, 1919, xxxix, 315–316.
28. Local amyloid with special reference to so-called amyloid tumors of the tongue. Ann. Otol., Rhinol., and Laryngol., 1920, xxix, 773–795.
29. The hospital laboratory. Hosp. Prog., 1920, i, 198–200.
30. The pathology of encephalitis epidemica (Lethargica). Journal-Lancet, 1921, xli, 410–412.
31. Tuberculosis from the standpoint of the postmortem. Am. Rev. Tuberc., 1921, iv, 882–888.
32. Overcoming the difficulties encountered in the collection, storage, and shipping of specimens in France. Internat. Assn. Med. Mus. Bull. VIII, 1922, 25–26.
33. Certain obscure relations of drinking water to disease. Jour. Am. Water Works Assn., 1922, ix, 46–50.
34. A proposed method for estimating the capacity of the left ventricle of the heart. Jour. Med. Res., 1922, xliii, 253–266. (With Paul H. Duff.)
35. Teamwork between the roentgenologist and the pathologist. Jour. Radiol., 1922, iii, 308–310.
36. The laboratory practice of medicine. Jour. Iowa State Med. Soc., 1922, xii, 503–506.
37. The decline in tuberculosis as revealed by postmortem examinations. Minn. Med., 1924, vii, 543–546.

38. Hospital deaths. Hosp. Prog., 1924, v, 371–372.
39. "Endothelioma" of the pleura. Jour. Cancer Res., 1924, viii, 317–375.
40. A modification of the usual method of obtaining postmortem cultures. Bull. Internat. Assn. Med. Museums, 1924, No. 10, 93–94.
41. The "battery" system for preservation of museum specimens. Bull. Internat. Assn. Med. Museums, 1924, No. 10, 32–33.
42. Unusual features of carcinoma. Minn. Med., 1925, viii, 1–3.
43. Our responsibility to our deaths. South. Med. Jour., 1925, xviii, 125–128.
44. Duodenal ulcer: an anatomic study. Med. Clin. N. Amer., 1925, viii, 1065–1092. (With E. H. Hargis.)
45. The potentialities of a clinical-pathological conference, with illustrative cases. Journal-Lancet, 1925, xlv, 257–264. (With R. Fitz.)
46. Proposed modification of the Kaiserling method for preservation of specimens for display purposes. Jour. Lab. and Clin. Med., 1925, x, 665–667. (With R. Lundquist.)
47. Concerning hospital deaths. Mod. Hosp., 1925, xxiv, 516–517.
48. Better postmortem service. Jour. Lab. and Clin. Med., 1925, x, 486–490.
49. Unsolved problems in the pathology of tuberculosis. Tr. Nat. Tuberc. Assn., 1925, xxi, 374–381.

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Bibliography.—1. Two cases of anatomical anomaly of the large intestine. Boston Med. and Surg. Jour., 1905, cliii, 720–723.

2. A monstrosity. Vet. Rec., 1905–1906, xviii, 664.

3. Experimental surgery of the lungs. I. Thirty animal operations under positive pressure. A preliminary report. Ann. Surg., 1908, xlvii, 184–221.

4. The Bennett fracture of the first metacarpal bone. Diagnosis and treatment. Boston Med. and Surg. Jour., 1908, cliii, 275–280.

5. Artificial intrapulmonary positive pressure. Experimental application in surgery of the lungs. Jour. Am. Med. Assn., 1908, li, 803–805.

6. Surgical aspects of tuberculosis of the lungs and pleura. Tr. Sixth International Congress on Tuberculosis, 1908, ii, Sect. 3, 73–77.

7. Surgery of the lungs under positive and negative pressure, with a report of eighteen animal operations performed without pressure-difference. Surg., Gynec., and Obst., 1909, viii, 255–272. (With G. A. Leland.)

8. Untersuchungen über die Lungenextirpation unter vergleichender Anwendung beider Formen des Druckdifferenzverfahrens. Deutsch. Ztschr. f. Chir., 1909, cii, 542–560. (With F. Sauerbruch.)

9. Surgery of the lungs under positive and negative pressure. Dep. Surg. Med. Sch., Harvard University, 1909–1910, Bull. 6, 1–36. (With G. A. Leland.)

10. Investigation concerning the technic of lung resection with the application of both forms of differential pressure. Ann. Surg., 1910, li, 320–339. (With F. Sauerbruch.)

11. A positive pressure cabinet for thoracic surgery. Surg., Gynec., and Obst., 1910, x, 287–295.
12. Acute thoracic empyema. Avoidance of chronic empyema. Rib-trephining for suction drainage. Boston Med. and Surg. Jour., 1910, clxiii, 561–570.
13. Progress in surgery. Thoracic surgery. Boston Med. and Surg. Jour., 1910, clxiii, 875–877, 914–918.
14. Operative treatment of wounds of the heart. With report of a recent case of bullet wound of the heart, lung, and liver. Am. Surg., 1911, liii, 324–348. (With C. W. W. Brewster.)
15. Bronchiectasis and abscess of the lung. Boston Med. and Surg. Jour., 1911, clxv, 398–400.
16. The surgery of infectious diseases of the lung and pleura. Musser and Kelly's Handbook of Practical Treatment, Philadelphia, Saunders, 1912, iii, 235–258.
17. Pneumotectomy; its possibilities. Report of a case of partial lung excision. Ann. Surg., 1912, lv, 512–529.
18. Artificial pneumothorax as a treatment of pulmonary tuberculosis. Arch. Int. Med., 1912, ix, 452–483; also Tr. Am. Climat. Assn., 1911, xxvii, 289–383. (With C. Floyd.)
19. An apparatus for thoracic surgery under intratracheal insufflation or positive pressure; also for ether anesthesia by mask, intrapharyngeal, intratracheal and intrabuccal methods. Surg., Gynec., and Obst., 1912, xiv, 461–469.
20. The surgery of chronic infectious diseases of the lungs. Jour. Am. Med. Assn., 1912, lix, 269–272.
21. Intratracheal ether anesthesia. Fourteen hundred cases from twenty-two surgical clinics. Surg., Gynec., and Obst., 1913, xvi, 296–301.
22. The surgical aspects of those diseases of the thorax which are amenable to surgical intervention. Pennsylvania Med. Jour., 1913, xvi, 527–531.
23. Nasotracheal anesthesia. A new method applicable to operations within the mouth. Clifton Med. Bull., 1913–1914, i, 39–41. (With F. R. Crawford.)
24. Surgery of the heart, pericardium, and diaphragm. Clifton Med. Bull., 1914, i, 120–126.
25. The surgical aspects of bronchiectasis. Ann. Surg., 1914, lx, 29–35; Tr. Am. Surg. Assn., 1914, xxxii, 688–696. (With J. G. Mumford.)
26. Personal conclusions based on 100 operations for empyema. Read before the Fifth District Branch of the State of New York and Central New York Medical Society, Syracuse, New York, September 30, 1914.
27. Volume on thoracic surgery. To form part of American Surgery, New York, Appleton. (Unpublished.)
28. Intratracheal ether anesthesia: A new apparatus and intratracheal tube. Surg., Gynec., and Obst., 1915, xxi, 774–777.
29. The treatment of chronic nontuberculous empyema. Surg., Gynec., and Obst., 1916, xxii, 557–571.
30. Thoracic disease: The status of surgical therapy. Jour. Am. Med. Assn., 1916, lxvii, 556–559.
31. The resection of lobes of the lungs. Jour. Am. Med. Assn., 1917, lxix, 355–358.
32. The surgery of bronchiectasis; including a report of five complete resections of the lower lobe of the lung, with one death. Surg., Gynec., and Obst., 1917, xxiv, 194–215.
33. Thoracic surgery in war; I. Lessons applicable in civil practice. Med. Rec., 1920, xcvii, 1020–1022.
34. Acute mechanical obstruction of small intestine. Calif. State Jour. Med., 1921, xix, 389.
35. Thoracic surgery. Arch. Surg., 1923, vi, 247–255.

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Bibliography.—1. The Wassermann reaction in diabetes. Am. Jour. Syphilis, 1923, vii, 679–686. (With A. H. Sanford.)
2. Instruction of patients in the use of diets. Dietary Administration and Therapy, 1924, ii, 3–8.
3. Calcium treatment for edema. Arch. Int. Med., 1924, xxxiii, 643–657. (With C. W. Barrier.)
4. A laboratory manual of physiological chemistry. F. A. Davis Company, Philadelphia, 5 ed., 1924. (With Elbert W. Rockwood.)
5. Some physicochemical aspects of hemolysis. Jour. Lab. and Clin. Med., 1924, x, 10–18. (With E. C. Mason.)
6. Physicochemical aspects of hemolysis. II. An ultramicroscopic study of hemolysis. Jour. Lab. and Clin. Med., 1924, x, 19–31.
7. A study of complement in the serum of diabetic and uremic patients. Jour. Infect. Dis., 1924, xxxiv, 625–630. (With Carol Beeler.)
8. Lessons of nutrition derived from the great war. Mil. Surgeon, 1925, lvi, 385–413. (Wellcome prize essay.)
9. Bread substitutes in diabetic diets. Minn. Med., 1925, viii, 113–115.
10. Physicochemical aspects of hemolysis. III. A further study of some of the factors involved. Jour. Lab. and Clin. Med., 1925, x, 917–924. (With E. C. Mason.)
11. Physicochemical aspects of hemolysis. IV. The relation of the acidity of phosphate buffers to biologic hemolysis. Jour. Immunol., 1925, x, 741–775.
12. A clinical study of nephritis in cases of pregnancy. Surg., Gynec., and Obst., 1926, xlii, 342–350. (With R. D. Mussey and N. M. Keith.)
13. Instantaneous photomicrography of the blood platelets, with comments on their morphology. Arch. Path. and Lab. Med., 1926, i, 742–746. (With C. Sheard.)

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Bibliography.—1. Treatment of pathological scar tissue. West. Med. Rev., 1909, xiv, 167–174.
2. Operation for prolapsus uteri. West. Med. Rev., 1910, xv.
3. Technic for removal of appendix and fixation of cecum. Jour. Am. Med. Assn., 1911, lvi, 564–566.
4. Technic of draining biliary ducts after cholecystectomy. West. Med. Rev., 1911, xvi, 94.
5. The movable cecum. New York Med. Jour., 1912, xcv, 121–125.
6. A note on a picric acid and oil of cloves preparation of catgut. Surg., Gynec., and Obst., 1912, xv, 726.
7. Report of three cases of acute angulation of the terminal ileum causing intestinal obstruction, following an operation for and drainage of acute suppurative appendicitis. Boston Med. and Surg. Jour., 1913, clxix, 313–314.
8. A possible predisposing factor in the etiology of duodenal ulcer. Nebraska Med. Jour., 1916, i, 76–78.
9. An abnormal peritoneal fold over the first portion of the jejunum. Jour. Am. Med. Assn., 1917, lxviii, 1030–1031.
10. The rôle of the transverse mesocolon following gastro-enterostomy. Jour. Am. Med. Assn., 1917, xlix, 1320–1323.
11. Double ureterostomy for inoperable obstruction of the ureters. Nebraska Med. Jour., 1918, iii, 7.
12. Changes necessary to the future practice of medicine. Neb. Med. Jour., 1918, iii, 160.
13. Enterocolostomy for acute obstruction of the terminal ileum from infection in the pelvis and lower abdomen. Jour. Am. Med. Assn., 1918, lxxi, 1242.
14. A bureau for standardization of medicine in Nebraska. Neb. Med. Jour., 1919, iv, 63.
15. Surgical problems of the pancreas. Nebraska Med. Jour., 1920, v, 23–26.
16. Toxic goiter following epidemic influenza. Surg., Gynec., and Obst., 1920, xxx, 357–358; Tr. Assn. Res. and Ex-Res. Phys. Mayo Clinic, 1920, i, 87–92.
17. Surgery of the thyroid. Nebraska Med. Jour., 1920, v, 162.
18. Squamous-cell epithelioma of the thyroid. Ann. Surg., 1921, lxxiii, 23–29.
19. Hydrosalpinx with twisted pedicle. Report of case. Jour. Am. Med. Assn., 1921, lxxvi, 515.
20. Surgical considerations of gastric and duodenal ulcers. Jour. Am. Med. Assn., 1921, lxxvi, 1150–1153.
21. Relation of surgical technic to gastrojejunal ulcer. Arch. Surg., 1921, iii, 622–633.
22. An analysis of gastro-enterostomy and its failures. Jour. Am. Med. Assn., 1921, lxxvii, 1565–1571.
23. Prolapse of the uterus. Nebraska Med. Jour., 1921, vi, 378.
24. Surgery of nonhyperplastic ovarian cysts. Jour. Am. Med. Assn., 1922, lxxviii, 1452–1453.
25. Thyroidectomy: A modified technic. Jour. Am. Med. Assn., 1922, lxxix, 2066–2068.
26. Study of present-day economic problems in medicine, an essential. Nebraska Med. Jour., 1923, viii, 197–201.
27. A new gastro-enterostomy clamp. Surg., Gynec., and Obst., 1923, xxxvii, 538.
28. Thyroidectomy: a further modification in technic. Jour. Am. Med. Assn., 1924, lxxxii, 517–518.
29. Glands of internal secretion. Nebraska Med. Jour., 1924, ix, 227–229.
30. Duodenitis. Nebraska Med. Jour., 1924, ix, 252–256.
31. Improved technic for intestinal anastomosis. Ann. Surg., 1924, lxxx, 939–943.
32. A modified Mayo umbilical herniotomy. Surg., Gynec., and Obst., 1925, xl, 707–708.
33. Appendectomy. A study in technic. Arch. Surg., 1925, xi, 18–24.
34. Congenital absence of the left kidney, left tube and ovary, uterus, and vagina, with ectopic right kidney. Jour. Am. Med. Assn., 1925, lxxxiv, 748–749.
35. Mercurochrome therapy. Nebraska Med. Jour., 1925, x, 41–43. (With W. H. Judd.)

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Bibliography.—1. Benign extravertebral tumors producing symptoms of spinal cord: report of three cases. Jour. Neurol. and Psychopath., 1924, v, 220–226.

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Bibliography.—1. Blood cultures in lobar pneumonia and agglutination of the pneumococcus. Tr. Chicago Path. Soc., 1903, v, 265–274.

2. On the association of stone and tumor of the urinary bladder, with report of a case. Am. Jour. Med. Sc., 1902, cxxiii, 634–642.

3. Blood cultures in lobar pneumonia and agglutination of the pneumococcus. Medicine, Detroit, 1903, ix, 435–440.

4. Further studies in pneumonia. (Abst.) Tr. Chicago Path. Soc., 1903–1904, vi, 80–82.

5. Studies in pneumonia and pneumococcus infections. Jour. Infect. Dis., 1904, i, 280–312.

6. Streptococci in air of operating room and wards during an epidemic of tonsillitis. Am. Jour. Obst., 1904, l, 762–768.

7. The blood in lobar pneumonia, with remarks concerning treatment. Jour. Am. Med. Assn., 1905, xliv, 871–873.
8. The rôle of phagocytosis in the pneumococcidal action of pneumonic blood. Jour. Infect. Dis., 1906, iii, 683–700.
9. Human pneumococcal opsonin and the anti-opsonic substance in virulent pneumococci. Jour. Infect. Dis., 1907, iv, 285–296.
10. Human pneumococcal opsonin and the anti-opsonic substance in virulent pneumococci. Tr. Chicago Path. Soc., 1907–1908, vii, 55–66.
11. Phagocytic immunity and the therapeutic injection of dead bacteria in endocarditis. Tr. Chicago Path. Soc., 1907–1908, vii, 169–174.
12. Virulence of pneumococci in relation to phagocytosis. (Abst.) Science, 1908, n. s., xxvii, 657.
13. Virulent pneumococci, opsonin, and phagocytosis. Illinois Med. Jour., 1908, xiii, 13–19.
14. Phagocytic immunity and the therapeutic injection of dead bacteria in endocarditis. Jour. Am. Med. Assn., 1908, li, 1571–1572.
15. Immunological observations in ulcerative cystitis caused by pseudodiphtheria bacillus. Jour. Infect. Dis., 1909, vi, 296–303.
16. Immunological and experimental studies on pneumococcus and staphylococcus endocarditis ("Chronic septic endocarditis"). Jour. Infect. Dis., 1909, vi, 245–281.
17. Phagocytic immunity and the therapeutic injection of dead bacteria in endocarditis. Preliminary report. Illinois Med. Jour., 1909, xv, 263–267.
18. Primary portal thrombosis. Arch. Int. Med., 1909, iii, 232–248. (With D. D. Lewis.)
19. A simple method of keeping frozen various specimens. Tr. Chicago Path. Soc., 1909–1912, viii, 283.
20. On the mechanism of the production of infectious endocarditis. Tr. Chicago Path. Soc., 1909–1912, viii, 344.
21. A study of pneumococci from cases of infectious endocarditis. Jour. Infect. Dis., 1910, vii, 411–428.
22. Immunological studies in chronic pneumococcus endocarditis. Jour. Infect. Dis., 1910, vii, 429–456.
23. The autolysis of pneumococci and the effect of the injection of autolyzed pneumococci. Jour. Am. Med. Assn., 1910, liv, 1943.
24. Autogenous vaccine therapy in endocarditis. Jour. Am. Med. Assn., 1910, lv, 1719–1720.
25. A new stain for bacterial capsules with special reference to pneumococci. Tr. Chicago Path. Soc., 1909–1912, viii, 144–145.
26. A new stain for bacterial capsules with special reference to pneumococci. Jour. Am. Med. Assn., 1911, lvi, 418–419.
27. A new stain for bacterial capsules with special reference to pneumococci. Jour. Infect. Dis., 1911, ix, 1–8.
28. Anaphylaxis and the toxic substance from virulent pneumococci. Jour. Am. Med Assn., 1911, lvii, 285.
29. A case of pyemia due to an anaërobic bacillus. Tr. Chicago Path. Soc., 1909–1912, viii, 240–242. (With A. D. Bevan.)
30. The toxic material from various bacteria. Tr. Chicago Path. Soc., 1909–1912, viii, 248–250.
31. Pneumococcus anaphylaxis and immunity. Jour. Infect. Dis., 1911, ix, 190–211.
32. A bacteriological and cellular study of the lung exudate during life in lobar pneumonia. Jour. Infect. Dis., 1911, viii, 500–503.
33. Pyemia due to an anaërobic polymorphic bacillus, probably bacillus fusiformis. Jour. Infect. Dis., 1912, x, 1–6. (With Ruth Tunnicliff.)

34. An epidemic of sore throat due to a peculiar streptococcus. Jour. Am. Med. Assn., 1912, lviii, 773. (With D. J. Davis.)
35. Immunity in and the specific treatment of pneumonia. Illinois Med. Jour., 1912, xxi, 425–430.
36. Further studies of the toxic substances obtainable from pneumococci. Jour. Infect. Dis., 1912, xi, 94–108.
37. Further immunological studies in chronic pneumococcus endocarditis. New York State Jour. Med., 1912, xii, 441–445.
38. On the nature of the toxic substance from pneumococci. Jour. Infect. Dis., 1912, xi, 235–242.
39. On the toxicity of broth, of pneumococcus broth culture filtrates, and on the nature of the proteolytic enzyme obtainable from pneumococci. Jour. Infect. Dis., 1912, xi, 286–293.
40. Experimental infectious endocarditis. Jour. Infect. Dis., 1912, xi, 210–224.
41. Immunization in pneumococcus infections. Jour. Am. Med. Assn., 1912, lix, 795–796.
42. The action on dogs of the toxic substance obtainable from virulent pneumococci and pneumonic lungs. Jour. Infect. Dis., 1912, xi, 480–495. (With A. Arkin.)
43. The vaccine treatment of some unusual infections, with report of cases. Illinois Med. Jour., 1912, xxii, 676–680.
44. A study of streptococci from milk and from epidemic sore throat, and the effect of milk on streptococci. Jour. Infect. Dis., 1912, xi, 338–346.
45. The etiology of articular and muscular rheumatism. Jour. Am. Med. Assn., 1913, lx, 1223–1224.
46. Studies on the transmutation of pneumococci and streptococci. Tr. Chicago Path. Soc., 1913, ix, 61–63.
47. On the mechanism of intoxication in pneumococcus anaphylaxis and in pneumococcus infections. Tr. XV Internat. Cong. Hyg. and Demog., Wash. (1912), 1913, ii, 338–341.
48. The myocardial lesions of rabbits inoculated with streptococcus viridans. Lancet, London, 1913, ii, 1692. (With C. Coombs.)
49. Treatment of pneumonia with partially autolyzed pneumococci. Jour. Am. Med. Assn., 1913, lix, 2203–2240. (With L. Hektoen.)
50. The etiology and vaccine treatment of Hodgkin's disease. Jour. Am. Med. Assn., 1913, lxi, 2122–2123. (With F. Billings.)
51. The production of ulcer of the stomach by injection of streptococci. Jour. Am. Med. Assn., 1913, lxi, 1947–1950.
52. Mouth infection as a source of systemic disease. Jour. Am. Med. Assn., 1914, lxiii, 2026–2027.
53. Relation of and the lesion produced by various forms of streptococci with special reference to arthritis. (Abst.) Illinois Med. Jour., 1914, xxv, 11–14.
54. The etiology and specific treatment of rheumatism. Forchheimer's Therapeutics of Internal Diseases, New York and London, D. Appleton & Co., 1914, v, 509–516.
55. Transmutations within the streptococcus-pneumococcus group. Jour. Infect. Dis., 1914, xiv, 1–32.
56. Studies in endocarditis and rheumatism. Journal-Lancet, 1914, xxiv, 1–4.
57. Wechselseitige Mutation von Pneumokokken und Streptokokken. Centralbl. f. Bakteriol., Jena, 1914, lxxiii, Orig. 284–287.
58. Lesions produced by various streptococci; endocarditis and rheumatism. New York Med. Jour., 1914, xcix, 270–272.
59. The etiology of acute rheumatism, articular and muscular. Jour. Infect. Dis., 1914, xiv, 61–80.
60. Etiology of arthritis deformans: Preliminary note. Jour. Am. Med. Assn., 1914, lxii, 1146–1147.

61. Eine einfache Methode für das Anfertigen von Gewebskulturen. Centralbl. f. Bakteriol., I. abt., Jena, 1914, lxxiv, Orig., 366–368.
62. Preliminary note on the etiology of arthritis deformans. Tr. Chicago Path. Soc., 1914, ix, 115–118.
63. The newer bacteriology of various infections as determined by special methods. Jour. Am. Med. Assn., 1914, lxiii, 903–907.
64. Bacteriology of cholecystitis and its production by injection of streptococci. Jour. Am. Med. Assn., 1914, lxiii, 1835–1836.
65. Local infection due to intravascular dissemination of bacteria; the association of diphtheroid bacilli with various disease conditions. Surg., Gynec., and Obst., 1915, xx, 403–405.
66. Relation of focal infection to and the bacteriology of arthritis. Lancet-Clinic, 1915, cxiii, 32–34.
67. The bacteriology of appendicitis and its production by intravenous injection of streptococci and colon bacilli. Jour. Infect. Dis., 1915, xvi, 240–268.
68. The etiology and experimental production of erythema nodosum. Jour. Infect. Dis., 1915, xvi, 367–384.
69. The etiology and experimental production of herpes zoster. Preliminary note. Jour. Am. Med. Assn., 1915, lxiv, 1968. (With S. Oftedal.)
70. On an epidemic of sore throat and the virulence of streptococci isolated from the milk. Jour. Infect. Dis., 1915, xviii, 69–71. (With V. H. Moon.)
71. The bacteriology of ulcer of the stomach and duodenum in man. Jour. Infect. Dis., 1915, xvii, 219–226. (With A. H. Sanford.)
72. Pathogenesis of spontaneous and experimental appendicitis, ulcer of the stomach, and cholecystitis. Jour. Indiana State Med. Assn., 1915, viii, 458–460.
73. Elective localization of streptococci. Jour. Am. Med. Assn., 1915, lxv, 1687–1691.
74. Iritis and other ocular lesions on intravenous injection of streptococci. Jour. Infect. Dis., 1915, xvii, 403–408.
75. The etiology and experimental production of herpes zoster. Jour. Infect. Dis., 1916, xviii, 477–500. (With S. Oftedal.)
76. Treatment of lobar pneumonia with autolyzed extracts of pneumonocci. Jour. Am. Med. Assn., 1916, lxvii, 1929–1930. (With F. H. Falls.)
77. Elective localization of the streptococcus from a case of pulpitis, dental neuritis, and myositis. Jour. Immunol., 1916, i, 363–381.
78. The etiology of cholecystitis and gallstones and their production by the intravenous injection of bacteria. Jour. Infect. Dis., 1916, xix, 527–556.
79. The etiology of epidemic poliomyelitis. Preliminary note. Jour. Am. Med. Assn., 1916, lxvii, 1202–1205. (With E. B. Towne and G. W. Wheeler.)
80. The bacteriology and experimental production of ovaritis. Jour. Am. Med. Assn., 1916, lxvi, 1175–1180. (With C. H. Davis.)
81. An epidemic of appendicitis and parotitis probably due to streptococci contained in dairy products. Jour. Inf. Dis., 1916, xviii, 383–390. (With Stella I. Dunlap.)
82. Elective localization of bacteria in diseases of the nervous system. Jour. Am. Med. Assn., 1916, lxvii, 662–665.
83. The causation of gastric and duodenal ulcer by streptococci. Jour. Infect. Dis., 1916, xix, 333–384.
84. An epidemic of septic sore throat due to milk. Jour. Am. Med. Assn., 1917, lxviii, 1305–1307. (With C. L. v. Hess.)
85. Observations on immunity of monkeys to experimental poliomyelitis. Jour. Am. Med. Assn., 1917, lxviii, 280–282. (With E. B. Towne and G. W. Wheeler.)
86. Bacteriological observations in experimental poliomyelitis of monkeys. Jour. Med. Res., 1917, xxxi, 175–186. (With E. B. Towne.)
87. The production of an antipoliomyelitis serum in horses. Jour. Am. Med. Assn., 1917, lxix, 261–265.

88. The relation of dental infection to systemic disease. Dental Cosmos, 1917, lix, 485–491.
89. The treatment of epidemic poliomyelitis with immune horse serum. Preliminary report. Jour. Am. Med. Assn., 1917, lxix, 1074–1075.
90. Results of studies on epidemic poliomyelitis. Am. Jour. Pub. Health, 1917, vii, 994–998.
91. Partially autolyzed pneumococci in the treatment of lobar pneumonia. Results in 200 cases. Jour. Am. Med. Assn., 1918, lxx, 759–763.
92. The etiology of epidemic poliomyelitis. Jour. Infect. Dis., 1918, xxii, 281–312. (With G. W. Wheeler.)
93. The elective localization of streptococci from epidemic poliomyelitis. Jour. Infect. Dis., 1918, xxii, 313–344. (With E. B. Towne and C. L. v. Hess.)
94. Agglutination of the pleomorphic streptococcus isolated from epidemic poliomyelitis by immune serum. Jour. Infect. Dis., 1918, xxii, 345–378. (With Hazel Gray.)
95. Report on the treatment of fifty-eight cases of epidemic poliomyelitis with immune horse serum. Jour. Infect. Dis., 1918, xxii, 379–426.
96. Treatment of acute poliomyelitis with immune horse serum. Further studies. Jour. Am. Med. Assn., 1918, lxxi, 433–437.
97. The pathogenesis of focal infection. Jour. Nat. Dental Assn., 1918, v, 113–124.
98. The etiology and treatment of acute poliomyelitis. Journal-Lancet, 1918, xxxviii, 624–625.
99. Prophylactic inoculation against respiratory infections during the present pandemic of influenza. Preliminary report. Jour. Am. Med. Assn., 1919, lxxii, 31–34.
100. Studies in influenza and pneumonia. II and III, Jour. Am. Med. Assn., 1919, lxxii, 1604–1609.
    II. The experimental production of symptoms and lesions simulating those of influenza with streptococci isolated during the present pandemic.
    III. The occurrence of a pandemic strain of streptococcus during the pandemic of influenza.
101. A method for the preparation of prophylactic and autogenous lipovaccines. Jour. Am. Med. Assn., 1919, lxxiii, 87–91. (With A. E. Osterberg.)
102. Study X. The etiology and treatment of acute poliomyelitis. Minn. Med., 1919, ii, 253–256.
103. Studies in influenza and pneumonia. IV. Further results of prophylactic inoculation. Jour. Am. Med. Assn., 1919, lxxiii, 396–401. (With B. F. Sturdivant.)
104. Studies on elective localization. Focal infection with special reference to oral sepsis. Jour. Dental Res., 1919, i, 205–267.
105. Studies in influenza. Minn. Med., 1919, ii, 423–424.
106. Studies in influenza and pneumonia. V to XI, Jour. Infect. Dis., 1920, xxvi, 469–622.
    V. Observations on the bacteriology and certain clinical features of influenza and influenzal pneumonia.
    VI. The leukocytic reaction in influenza and influenzal pneumonia.
    VII. A study of the effects following the injection of bacteria found in influenza in normal throats, in simple nasopharyngitis, and in lobar pneumonia.
    VIII. Experiments on the etiology of "gastro-intestinal" influenza.
    IX. Changes in the green-producing streptococcus induced by successive animal passage and their significance in epidemic influenza.
    X. The immunologic properties of the green-producing streptococci from influenza.
    XI. Therapeutic effects of a monovalent antistreptococcus serum in influenza and influenzal pneumonia.
107. Etiology of and prophylactic inoculation in influenza. Illinois Med. Jour., 1920, xxxvii, 153–155; Wisconsin Med. Jour., 1919–1920, xviii, 370–371; Jour. Iowa State Med. Soc., 1920, x, 335–337.

108. Diaphragmatic spasms in animals produced with a streptococcus from epidemic hiccup. Preliminary report. Jour. Am. Med. Assn., 1921, lxxvi, 1745–1747.
109. Focal infection and elective localization of bacteria in appendicitis, ulcer of the stomach, cholecystitis, and pancreatitis. Surg., Gynec., and Obst., 1921, xxxiii, 19–26.
110. Treatment of acute poliomyelitis with immune horse serum. Summary of results. Jour. Am. Med. Assn., 1921, lxxvii, 588–590.
111. Treatment of poliomyelitis with immune horse serum by various physicians. Minnesota Med., 1921, iv, 588–593.
112. Focal infection and elective localization in the etiology of myositis. (With Winifred Ashby.) Arch. Int. Med., 1921, xxviii, 274–311.
113. Results of experimental studies on focal infection and elective localization. Med. Clinics N. Amer., 1921, v, 573–592.
114. Elective localization and focal infection from oral sepsis. Can. Jour. Med. and Surg., 1921, l, 34–43.
115. Nephritis and urinary calculi following the experimental production of chronic foci of infection. Preliminary report. Jour. Am. Med. Assn., 1922, lxxviii, 266–267. (With J. G. Meisser.)
116. Experimental studies on the etiology of encephalitis. Report of findings in one case. Jour. Am. Med. Assn., 1922, lxxix, 443–448.
117. Elective localization of bacteria following various methods of inoculation, and the production of nephritis by devitalization and infection of teeth in dogs. Jour. Lab. and Clin. Med., 1922, vii, 707–722. (With J. G. Meisser.)
118. Experimental studies in the etiology of epidemic encephalitis, epidemic hiccup, spasmodic torticollis, and allied conditions. Northwest Med., 1922, xxi, 329–331.
119. Three cases of acute encephalitis treated with specific serum. Jour. Am. Med. Assn., 1922, lxxix, 2068–2071. (With H. F. Helmholz.)
120. The etiology of spontaneous ulcer of the stomach in domestic animals. Jour. Infect. Dis., 1923, xxxii, 384–399.
121. Microscopic demonstration of bacteria in the lesions of epidemic lethargic encephalitis. Jour. Infect. Dis., 1923, xxxii, 144–152. (With G. H. Jackson, Jr.)
122. The production of spasms of the diaphragm in animals with a streptococcus from cases of epidemic hiccup. Jour. Infect. Dis., 1923, xxxii, 41–71.
123. The production of spasms of the diaphragm in animals by living cultures, filtrates, and the dead streptococcus from cases of epidemic hiccup. Jour. Infect. Dis., 1923, xxxii, 72–94.
124. Experimental observations on the etiology of chorea. Am. Jour. Dis. Child., 1923, xxvi, 223–241.
125. The specificity of the streptococcus of gastroduodenal ulcer and certain factors determining its localization. Jour. Inf. Dis., 1923, xxxiii, 248–268.
126. Changes in streptococcus from encephalitis, induced experimentally, and their significance in pathogenesis of epidemic encephalitis and influenza. Jour. Inf. Dis., 1923, xxxiii, 531–556.
127. Elective localization of the streptococcus-pneumococcus group as a factor in the production of disease. Ann. Clin. Med., 1923, i, 211–230.
128. Specific serum treatment of epidemic (lethargic) encephalitis. Further results. Jour. Am. Med. Assn., 1923, lxxx, 1583–1588.
129. The production of urinary calculi by the devitalization and infection of teeth in dogs with streptococci from cases of nephrolithiasis. Arch. Int. Med., 1923, xxxi, 807–829. (With J. G. Meisser.)
130. Streptococci in the etiology of epidemic encephalitis, spasmodic torticollis, respiratory arhythmia, and chorea. Journal-Lancet, 1924, xliv, 479–481.
131. Experimental and clinical studies on focal infection and elective localization: newer findings and their significance. Jour. Am. Dental Assn., 1924, xi, 963–982; Dental Sum., 1924, xliv, 954–966, 1026–1041.

132. A precipitin reaction in epidemic poliomyelitis. Proc. Soc. Exper. Biol. and Med., 1924, xxii, 155–156.
133. Further studies on the etiology of epidemic hiccup. Proc. Soc. Exper. Biol. and Med., 1924, xxii, 187–188.
134. Experimental studies indicating an infectious etiology of spasmodic torticollis. Jour. Nerv. and Ment. Dis., 1924, lix, 1–30.
135. Experiments on the etiology of respiratory arhythmias following epidemic encephalitis. Arch. Neurol. and Psychiat., 1924, xi, 155–178.
136. Specificity of streptococci in the etiology of diseases of the nervous system. Jour. Am. Med. Assn., 1924, lxxxii, 449–453.
137. Streptococci in relation to the etiology of epidemic encephalitis: experimental results in eighty-one cases. Jour. Infect. Dis., 1924, xxxiv, 329–389.
138. A precipitating and neutralizing antistreptococcus (scarlatinal) horse serum. Proc. Soc. Exper. Biol. and Med., 1924, xxii, 189–193; Jour. Infect. Dis., 1925, xxxvi, 525–537.
139. A specific precipitin reaction in epidemic poliomyelitis. Jour. Am. Med. Assn., 1925, lxxxiv, 429–432.
140. The production of urinary calculi by the devitalization and infection of teeth in dogs with streptococci from cases of nephrolithiasis. Jour. Iowa State Med. Soc., 1925, xv, 297–301; Illinois Med. Jour., 1926, xlix, 28–33.
141. The precipitin reaction in the diagnosis of scarlet fever and allied hemolytic streptococcus infections. Jour. Am. Med. Assn., 1926, lxxxvi, 9–14.
142. Further studies on the etiology of epidemic hiccup (singultus) and its relation to encephalitis. Arch. Neurol. and Psychiat., 1926, xv, 712–734.
143. Neuromyelo-encephalitis during and following an epidemic of hiccup; diverse localization of streptococci. Arch. Neurol. and Psychiat., 1926, xvi, 21–36.
144. Further studies of the poliomyelitis precipitin reaction. Jour. Infect. Dis., 1926, xxxviii, 532–540.
145. Studies on poliomyelitis: Résumé and newer findings. Minn. Med., 1926, ix, 231–235
146. Changing concepts concerning oral sepsis. Jour. Am. Dent. Assn., 1926. (In press.)
147. A skin reaction in poliomyelitis. Jour. Infect. Dis., 1926, xxxviii, 529–531.

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Bibliography.—1. Postoperative biliary fistulas. Arch. Surg., 1921, iii, 582–594, (With D. C. Balfour.)
2. A clinical study of cancer of the uterine cervix. Can. Med. Assn. Jour., 1922, xii, 772–780.
3. Obstruction of the lower ileum due to carcinoma of the sigmoid colon. St. Michael's Hosp. Med. Bull., 1923, i, 35–38.
4. Surgical lesions of the pancreas. Can. Pract. and Rev., 1924, xlix, 1–11.
5. Intersigmoid hernia: with report of case involving portions of the large and small intestine. Surg., Gynec., and Obst., 1924, xxxix, 15–18. (With H. A. Bruce.)
6. Hypertonic sodium chlorid solution in cases of adynamic ileus. Tr. Res. and Ex-Res. Phys. Mayo Clinic, 1925, vi.

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Bibliography.—1. The effects of epinephrin infusion on vasomotor irritability. Am. Jour. Physiol., 1915, xxvii, 471–480. (With R. G. Hoskins.)
2. The effect of hemorrhage and of occlusion of the carotid arteries on vasomotor irritability. Arch. Int. Med., 1915, xvi, 456–464. (With R. G. Hoskins and C. Rosser.)
3. The management of teeth during pregnancy. Bull. Lying-in Hospital, New York City, 1922, xii, 82–87.

4. Considerations in antenatal care of pregnant women. Ann. Clin. Med., 1922, i, 196–199.
5. Observations on the blood sugar during pregnancy and the puerperium. Am. Jour. Obst. and Gynec., 1923, v, 23–32.
6. Dental care during the prenatal period. Am. Jour. Obst. and Gynec., 1923, vi, 737–742.
7. End results of labor with respect to the soft parts of the passage. West Virginia Med. Jour., 1923, xviii, 8–12.
8. The endometrium from a clinical viewpoint. West Virginia Med. Jour., 1924, xix, 565–569.

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Bibliography.—1. Diagnosis of chronic endocarditis prior to disturbance in compensation. Jour. Med. Soc., New Jersey, 1907–08, iv, 332–339.

2. On the guanylic acid of the spleen. Jour. Biol. Chem., 1908, iv, 289–295. (With W. Jones.)

3. The contrast in the excretion of chlorin in influenza pneumonia and in ordinary lobar pneumonia. Johns Hopkins Hosp. Bull., 1908, xix, 367–373.

4. On the pharmacological action of some phthaleins and their derivatives, with especial reference to their behavior as purgatives. I. Jour. Pharmacol. and Exp. Therap., 1909, i, 231–264. (With J. J. Abel.)

5. Subcutaneous purgatives; a clinical study on phenoltetrachlorphthalein. Johns Hopkins Hosp. Bull., 1909, xx, 293.

6. On the excretion of creatinin in the infant with some notes regarding its occurrence in amniotic fluid. Johns Hopkins Hosp. Bull., 1910, xxi, 40–44. (With S. Amberg.)
7. On the efficacy of antimony-thioglycollic acid compounds in the treatment of experimental trypanosomiasis. Jour. Pharmacol. and Exper. Therap., 1910, ii, 101–142; Tr. Assn. Am. Physicians, 1910, xxv, 403–443. (With J. J. Abel.)
8. An experimental and clinical study of the functional activity of the kidneys by means of phenolsulphonephthalein. Jour. Pharmacol. and Exper. Therap., 1910, i, 579–661. (With J. T. Geraghty.)
9. Étude experimentale et clinique de l'activite fonctionnelle des reins a l'aide de la phenolsulfonephthalein. Ann. d. mal. d. org. genito-urin, 1911, i, 289–414. (With J. T. Geraghty.)
10. Note concerning the laxative properties of the tribasic salts of phenolphthalic acid. Jour. Pharmacol. and Exper. Therap., 1911, ii, 469–475.
11. Further data relating to the use of certain antimonial compounds in the treatment of experimental trypanosomiasis. Jour. Pharmacol. and Exper. Therap., 1910–11, ii, 501–505. (With J. J. Abel.)
12. The phenolsulphonephthalein test for estimating renal function. Jour. Am. Med. Assn., 1911, lvii, 811–816; Canada Lancet, 1911–12, xlv, 85–104. (With J. T. Geraghty.)
13. James Parkinson. Johns Hopkins Hosp. Bull., 1912, xxiii, 33–45.
14. The phthalein test; an experimental and clinical study of phenolsulphonephthalein in relation to renal function in health and disease. Arch. Int. Med., 1912, ix, 284–338. (With J. T. Geraghty.)
15. Studies of renal function in renal, cardiorenal, and cardiac diseases. Arch. Int. Med., 1913, xi, 258–287. (With R. Fitz.)
16. The effects of experimental chronic, passive congestion on renal function. Arch. Int. Med., 1913, xi, 121–147. (With R. Fitz and J. T. Geraghty.)
17. Radium in internal medicine, its physiologic pharmacologic effects. Jour. Am. Med. Assn., 1913, lxi, 1438–1442. (With W. A. Baetjer.)
18. The effect of temporary occlusion of renal circulation on renal function. Arch. Int. Med., 1913, xii, 24–36. (With R. Fitz.)
19. The value and limitations of functional renal tests. Jour. Am. Med. Assn., 1913, lxi, 939–943. (With J. T. Geraghty.)
20. An experimental and clinical study of the value of phenoltetrachlorphthalein as a test for hepatic function. Johns Hopkins Hosp. Bull., 1913, xxiv, 327–342. (With S. H. Hurwitz and A. L. Bloomfield.)
21. Der Wert des Phenoltetrachlorphthaleins für die Funktionsprüfung der Leber. Arch. f. Verdauungskr., 1913, xix, 751–753. (With J. H. Hurwitz and A. L. Bloomfield.)
22. On the study of renal function; the prognostic value of studies of renal functions. Tr. Cong. Am. Phys. and Surg., 1913, 23–53; Am. Jour. Med. Sc., 1914, cxlvii, 352–365.
23. A study of the comparative value of functional tests in the surgical diseases of the kidney secondary to obstruction in the lower urinary tract. Surg., Gynec., and Obst., 1914, xviii, 196–202. (With J. T. Geraghty and E. K. Marshall.)
24. Plasma removal with return of corpuscles (plasmaphaeresis). Jour. Pharmacol. and Exp. Therap., 1913–1914, v, 625. (With J. J. Abel and B. B. Turner.)
25. The action of radium emanation on lipase. Jour. Biol. Chem., 1913–1914, xvi, 379–384. (With E. K. Marshall.)
26. Peritoneale und pleurale Resorption in ihren Beziehungen zu der Lagerungsbehandlung. Beitr. z. klin. Chir., 1913, lxxxvii, 539–567. (With W. E. Dandy.)
27. Peritoneal and pleural absorption, with reference to postural treatment. Ann. Surg., 1914, lix, 587–596. (With W. E. Dandy.)
28. The value and limitation of diastase, urea, and phthalein in estimating renal function in association with ureteral catheterization. Ann. Surg., 1913, lviii, 800–808 (With J. T. Geraghty and F. S. Cary.).

29. On the removal of diffusible substances from the circulating blood of living animals by dialysis. Jour. Pharmacol. and Exper. Therap., 1913–1914, v, 275–316, 611–623; Tr. Assn. Am. Physicians, 1913, xxviii, 51–54. (With J. J. Abel and B. B. Turner.)
30. Studies in liver function. Jour. Am. Med. Assn., 1914, lxiii, 1533–1537; Tr. Assn. Am. Physicians, 1914, xxix, 586–627. (With A. M. Chesney and E. K. Marshall, Jr.)
31. Further studies of renal function in renal, cardiorenal, and cardiac diseases. Arch. Int. Med., 1915, xv, 543–554. (With E. K. Marshall and W. A. Baetjer.)
32. Mushroom poisoning, some observations in a case due to Amanita phalloides. Jour. Am. Med. Assn., 1915, lxiv, 1230–1232. (With M. Clark and E. K. Marshall.)
33. Plasma and blood volume in pregnancy. Jour. Am. Med. Assn., 1915, lxv, 779–782. (With J. R. Miller and N. M. Keith.)
34. A simple method for determining variations in the hydrogen-ion concentration of the blood. Arch. Int. Med., 1915, xvi, 389–405; Tr. Assn. Am. Physicians, 1915, xxx, 227–229. (With R. L. Levy and W. McK. Marriott.)
35. Studies in liver and kidney function in experimental phosphorus and chloroform poisoning. Jour. Exper. Med., 1915, xxii, 333–346; Tr. Assn. Am. Physicians, 1915, xxx, 227–229. (With E. K. Marshall.)
36. A method for the determination of plasma and blood volume. Arch. Int. Med., 1915, xvi, 547–576; Tr. Assn. Am. Physicians, 1915, xxx, 102–106. (With N. M. Keith and J. T. Geraghty.)
37. The standardization of digitalis and the potency of American grown digitalis. Jour. Am. Med. Assn., 1916, lxvi, 870. (With D. I. Macht.)
38. On the toxicity of various commercial preparations of emetin hydrochlorid. Arch. Int. Med., 1916, xvii, 420–443. (With R. L. Levy.)
39. A study of the buffer value of the blood. Arch. Int. Med., 1916, xvii, 525–539. (With R. L. Levy.)
40. Uremia, etiology, types, and diagnosis. Jour. Iowa State Med. Soc., 1917, vii, 1–5; Journal-Lancet, 1917, xxxvii, 491–495. Discussion, 502–505.
41. The diagnosis and treatment of acidosis. St. Paul Med. Jour., 1917, xix, 1–9; Tr. Assn. Am. Physicians, 1916, xxxi, 39–57.
42. Roentgenography of the lungs; roentgenographic studies in living animals after intratracheal injection of iodoform emulsion. Arch. Int. Med., 1917, xix, 538–549. (With C. A. Waters and S. Bayne-Jones.)
43. Graphic record of reflexes and colonus. Tr. Assn. Am. Phys., 1917, xxxii, 550–557. (With R. E. Morris.)
44. Syphilis in its medical, its general, and its sociological aspects. Journal-Lancet, 1918, xxxviii, 222–225.
45. Salt metabolism in diabetes. Proc. Am. Soc. Biol. Chemists, 1917, iv, 20. (With A. H. Beard.)
46. Myrtol poisoning, with comments upon the toxicity of eucalyptus oil and myrtol in human beings and in animals. Bull. Johns Hopkins Hosp., 1918, xxix, 215–221; Tr. Assn. Am. Phys., 1918, xxxiii, 157–202. (With L. F. Barker.)
47. Aviation medicine. Oxford Medicine. New York, Oxford Univ. Press, 1920, i, 545–618. (With W. H. Wilmer.)
48. The pharmacological basis of medicine. Oxford Medicine. New York, Oxford Univ. Press, 1920, i, 811–923.
49. The treatment of nephritis. In Musser, J. H., and Kelly, T. C.: A Handbook of Practical Treatment. Philadelphia, Saunders, 1917, iv, 747.
50. Studies in basal metabolism. Jour. Am. Med. Assn., 1920, lxxv, 515–523; Arch. méd. belges, 1920, lxxiii, 467. (With A. M. Snell and Frances Ford.)
51. The differential diagnosis of polyuria, with special reference to diabetes insipidus. Med. Clin. N. Amer., 1921, v, 439–453.

52. The rôle and development of drug therapy. Jour. Am. Med. Assn., 1921, lxxvii, 1061–1065. Tr. Sec. Pharmacol. and Therap., Am. Med. Assn., 1921, 5–18.
53. Pituitary extract and water balance. Med. Rec., 1921, c, 174.
54. The spirit of investigation in medicine. Science, 1921, liv, 179–183.
55. Studies in diabetes insipidus, water balance, and water intoxication. Study I. Arch. Int. Med., 1922, xxix, 306–330. (With J. F. Weir and E. E. Larson.)
56. Subsequent course of a case of Addison's disease. Jour. Am. Med. Assn., 1922, lxxiv, 556–557.
57. The water balance of the body. Physiol. Rev., 1922, ii, 116–169.
58. Renal function tests. Northwest Med., 1922, xxi, 220–221.
59. A study of the renal complications of disseminated lupus erythematosus: Report of four cases. Tr. Assn. Am. Phys., 1922, xxxvii, 487–502. (With N. M. Keith.)
60. The treatment of three cases of chronic Addison's disease. Med. Clin. N. Amer., 1923, vii, 177–187.
61. Roentgenography of the urinary tract during the excretion of sodium iodid. Am. Jour. Med. Assn., 1923, lxxx, 368–373. (With E. D. Osborne, C. G. Sutherland, and A. J. Scholl.)
62. Water intoxication. Arch. Int. Med., 1923, xxxii, 157–174.
63. Toxic nephritis in pyloric and duodenal obstruction. Renal insufficiency complicating gastric tetany. Arch. Int. Med., 1923, xxxii, 425–455. (With G. E. Brown, G. B. Eusterman, and H. R. Hartman.)
64. The dietitian and public welfare. Dietary Administration and Therapy, 1923, i, 34–39.
65. Drugs and basal metabolism. Jour. Pharmacol. and Exper. Therap., 1923, xxii, 99–108. (With W. M. Boothby.)
66. Organotherapy in Addison's disease. Jour. Pharmacol. and Exper. Therap., 1924, xxiii, 135–136.
67. Internal medicine and roentgenology. (Editorial.) Radiology, 1924, ii, 343–346.
68. Medical developments in Rochester the past year. (Abst.) Tr. Assn. Res. and Ex-Res. Phys. Mayo Clinic, 1924, v, 68–69.
69. Studies in diabetes insipidus. Jour. Am. Med. Assn., 1924, lxxxiii, 399–405.
70. Studies in liver function. Tr. Assn. Am. Phys., 1924, xxix, 586–625. (With E. K Marshall and A. M. Chesney.)
71. Changes in the concentration of the blood following the administration of excessive quantities of water. Am. Jour. Physiol., 1924, lxviii, 111–112. (With C. H. Greene.)
72. Studies in Addison's disease. Jour. Am. Med. Assn., 1925, lxxxiv, 327–335.
73. The rôle of functional tests in the study of diseases of the liver. Med. Clin. N. Amer., 1925, viii, 1389–1401.
74. The volume and composition of the blood, and the changes incident to diuresis in cases of edema. Arch. Int. Med., 1925, xxxv, 129–146. (With G. E. Brown.)
75. Right-sided carotid pulsations in cases of severe hypertension. Jour. Am. Med. Assn., 1925, lxxxiv, 1016–1019. (With G. E. Brown.)
76. Diseases of the liver. II. A comparative study of certain tests for hepatic function in experimental obstructive jaundice. Arch. Int. Med., 1925, xxxvi, 273–291. (With A. M. Snell and C. H. Greene.)
77. An evaluation of therapy with special reference to organotherapy. Endocrinology, 1925, xi, 181–191.
78. Diseases of the liver. III. A comparative study of certain tests for hepatic function in patients with obstructive jaundice. Arch. Int. Med., 1925, xxxvi, 418–436. (With C. S. McVicar, C. H. Greene, and W. Walters.)
79. A tintometer for the analysis of the color of the skin. Am. Jour. Med. Sc., 1925, clxx, 341–347. (With G. E. Brown.)
80. Bilateral lumbar sympathetic neurectomy in the treatment of malignant hypertension: report of a case. Jour. Am. Med. Assn., 1925, lxxxv, 959–961. (With A. W. Adson.)

81. Novasurol in the treatment of ascites in hepatic disease. Jour. Am. Med. Assn., 1925, lxxxv, 1187–1193. (With C. W. Barrier and N. M. Keith.)
82. Vasodilatation following sympathetic neurectomy. Am. Heart Jour., 1925, i, 144–150. (With G. E. Brown.)
83. Diseases of the liver. IV. Functional tests in cases of carcinoma of the liver and biliary tract. Arch. Int. Med., 1925, xxxvi, 542–560. (With C. H. Greene, C. S. McVivar, and W. Walters.)
84. Stories of rejuvenation by grafting of glands merely myth—administration of quack glandular products dangerous. Northwestern Health Jour., 1926, xi, 6–7, 22–23.
85. The rôle of liver functional tests in practice of medicine. Tr. Assn. Am. Phys., 1925, xl, 379–391.
86. The determination of the functional capacity of the kidney. In Osler's Modern Medicine, Philadelphia and New York, Lea and Febiger, 3 ed., 1926. (In press.)
87. Important advances of the last decade in our knowledge of diseases of the kidney. In Osler's Modern Medicine, Philadelphia and New York, Lea and Febiger, 3 ed., 1926. (In press.)
88. The effects on mammals of the administration of excessive quantities of water. Abel Festschrift, 1926; Jour. Pharmacol. and Exper. Therap., 1926, xxix, 135–159.
89. Intravenous administration of water, salts, and glucose. Jour. Am. Med. Assn., 1926. (In press.)

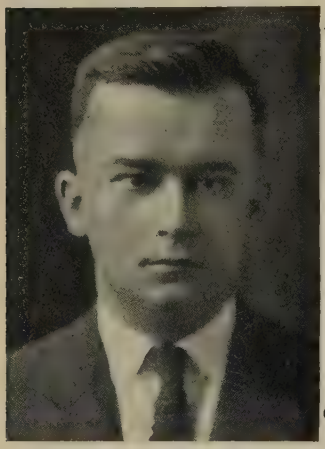
Ruedemann, Rudolph, Jr., B.S., M.D., was born March 27, 1893 in Lowville, New York; received the degree of B.S. in 1915, and of M.D. in 1917, from the University of Michigan, and was house physician at the University Hospital, Ann Arbor, Michigan, from June, 1917 to April, 1918. From June, 1918 to June, 1919 he served as Lieutenant in the Medical Corps, U. S. A., and was stationed at Camp Greenleaf, Camp Jackson, Camp Sevier, and at the General Hospital in Detroit. He entered The Mayo Foundation as a fellow in dermatology in September, 1919; his services included dermatology and syphilology, two years. He left The Mayo Foundation in August, 1921, and practiced in Cincinnati, Ohio, until May, 1922, when he moved to Huntington, West Virginia. He is a member of the Cincinnati Academy of Medicine, the Cabell County Medical Society, the West Virginia State Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Esther Rohrer December 31, 1917. His address is 421 Eleventh Street, Huntington, West Virginia.

Rudolph Ruedemann, Jr.

Bibliography.—1. Epidemic infectious jaundice and its relation to the therapy. Arch. Int. Med., 1920, xxvi, 521–543. (With J. H. Stokes and W. S. Lemon.)
2. A hyaloma (pseudocolloid milium or colloidoma ulcerosum?) simulating morpheiform epithelioma. Report of a case. Arch. Dermat. and Syph., 1922, v, 591–596.

3. Some new occupation dermatoses. Ohio State Med. Jour., 1922, xviii, 618–620.
4. Primary syphilis: present-day methods of diagnosis; résumé of 151 consecutive cases. West Virginia Med. Jour., 1924, xix, 617–625.

Sager, William W., B.A., M.D., was born January 8, 1898 in Shenandoah County, Virginia; received the degree of B.A. in 1918 from Washington and Lee University, Lexington, Virginia, and the degree of M.D. in 1922 from George Washington University, Washington, D. C.; was intern at the Emergency Hospital, Washington, D. C., in 1922 and 1923, and resident surgeon there the following year. He entered The Mayo Foundation July 1, 1924 as a fellow in surgery; his services to January 1, 1926 included surgical pathology, six months; orthopedics, three months; general diagnosis, six months, and operative surgery, three months. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, and Phi Chi. He married Louise G. Harmer September 6, 1922. His present address is Rochester, Minnesota.



William W. Sager

Sanders, John L., D.D.S., M.D., was born June 11, 1880 in Oconee County, South Carolina; attended the University of Nashville one year; received the degree of D.D.S. in 1906 from the University of Maryland, and of M.D. in 1919 from the University of South Carolina; was intern in the Baker Sanitarium, Charleston, South Carolina, from 1919 to 1920; practiced dental surgery in Anderson, South Carolina, from 1906 to 1915, and did graduate work in ophthalmology and otolaryngology in New York during 1920. He entered The Mayo Foundation as a special student in otolaryngology October 1, 1920; his services included laryngology, oral and plastic, six months; ophthalmology, six months, and otolaryngology, one and one-half months. He left The Mayo Foundation November 10, 1921, and began the practice of ophthalmology and otolaryngology in Greenville, South Carolina. He is a member of the Greenville Medical Club, the Greenville County

John L. Sanders

Medical Society, the South Carolina Medical Association, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Pearl M. Matthews October 14, 1913. His address is Public Library Building, Greenville, South Carolina.

Bibliography.—1. Ulcers: variety, course, dangers, and treatment. Jour. S. Carolina Med. Assn., 1908, iv, 350–354.

Sanders, Robert L., M.D., F.A.C.S., was born April 7, 1882 in Anderson, South Carolina; attended the University of Nashville, six years, receiving the degree of M.D. in 1906, and practiced in Anderson, South Carolina, from 1906 to 1914. He entered the Mayo Clinic July 1, 1914 as a fellow in surgery; his services included general diagnosis, one year; urology, six months, and surgery, eighteen months. He left The Mayo Foundation July 1, 1917, and entered the Medical Corps, U. S. A.; was commissioned Major, and acted as chief of the surgical service at the Base Hospital at Camp Gordon, and later at Camp Devens. After his discharge from the army he established the Sanders-Warr Clinic, now the Polyclinic, in Memphis, Tennessee. He is a member of the Memphis and Shelby County Medical Society, the Tennessee State Medical Association, the Southern Medical Association, the Southern Surgical Association, the American Medical Association, the American College of Surgeons, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Rena Wood November 28, 1906. His address is 20 South Dunlap Avenue, Memphis, Tennessee.

Robert L. Sanders

Bibliography.—1. Some remarks on gallbladder and duct surgery. Jour. S. Carolina Med. Assn., 1918, xiv, 227–231.
2. Surgical management of chronic gastric and duodenal ulcers. Jour. Tennessee Med. Assn., 1918–1919, xi, 57–60; 97–100.
3. Cancer of the stomach. Jour. S. Carolina Med. Assn., 1920, xvi, 193–197. (With J. J. McCaughan.)
4. Management of the surgical kidney. South. Med. Jour., 1921, xiv, 408–414.
5. Peptic ulcer. Jour. Tennessee Med. Assn., 1923, xvi, 160–165. (With C. C. King.)
6. Surgery in diabetes mellitus. Jour. S. Carolina Med. Assn., 1924, xx, 169–177. (With J. P. Henry.)

Sanderson, Fred R., M.D., M.S. in Surgery, F.A.C.S., was born June 5, 1893 in Washington, D. C.; received the degree of M.D. from Georgetown University, Washington, D. C., in 1915, and of M.S. in Surgery from the University of Minnesota in 1921; and from June, 1915 to January, 1917 was intern at the New Emergency Hospital, Washington, D. C. He entered The Mayo Foundation as a fellow in surgery January 19, 1917; his services included surgical pathology, six months; general diagnosis, one year; surgery, two years, and urology, four months. In 1917 he was commissioned First Lieutenant, Medical Reserve Corps, U. S. A., and held this rank until 1922, but had no active service. He left The Mayo Foundation January 19, 1922, and practiced surgery in Ashland, Kentucky, for nine months, when he moved to Washington, D. C. He is a member of the Boyd County Medical Society, the Kentucky State Medical Association, the District of Columbia Medical Society, the Hippocrates-Galen Society, the Osler Society, the Georgetown Clinical Society, the American College of Surgeons, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Margaret Madden January 19, 1922. His address is The Marlborough, 917 Eighteenth Street Northwest, Washington, D. C.

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Bibliography.—1. Epithelioma of the penis. (Thesis, 1921.)

Sandiford, Irene, B.A., Ph.D., was born June 30, 1889 at St. Charles, Michigan; received the degree of B.A. from Radcliffe College, Cambridge, Massachusetts, in 1913, and of Ph.D. from the University of Minnesota in 1919. She came to the Mayo Clinic in November, 1916 as an associate in the Section on Clinical Metabolism. She is also an instructor in biological chemistry, The Mayo Foundation, Graduate School, University of Minnesota, and an associate member of the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. Her address is Rochester, Minnesota.

Bibliography.—1. The calibration of the Waller gas balance and the Connell anesthetometer. Jour. Pharm. and Exper. Therap., 1914, v, 369–392. (With W. M. Boothby.)

2. The analysis of nitrous oxid for physiological work. Am. Jour. Physiol., 1915, xxxvii, 371–377. (With W. M. Boothby.)

3. The tension of carbon dioxid and oxygen in the venous blood at rest and at work. Am. Jour. Physiol., 1916, xl, 134–136. (With W. M. Boothby.)
4. The tension of carbon dioxid and the percentage saturation of the hemoglobin in the venous blood at rest and at work; the regulation of the circulation rate. Am. Am. Jour. Physiol., 1916, xl, 547–553. (With W. M. Boothby.)
5. The effect of the subcutaneous injection of adrenalin chlorid on the heat production, blood-pressure, and pulse rate in man. Am. Jour. Physiol., 1920, li, 407–421.
6. The basal metabolic rate in exophthalmic goiter (1917 cases) with a brief description of the technic used at the Mayo Clinic. Endocrinology, 1920, iv, 71–87.
7. The effect of the subcutaneous injection of adrenalin chlorid on the heat production, blood pressure, and pulse rate in man. Am. Jour. Physiol., 1920, li, 200–201. (With W. M. Boothby.)
8. A laboratory manual of the technic of basal metabolic rate determinations. Philadelphia, Saunders, 1920, 117 pp. (With W. M. Boothby.)
9. The relationship of the increase in blood sugar concentration to the specific dynamic action of glucose and to the specific dynamic action of adrenalin. Am. Jour. Physiol., 1921, lv, 293–294. (With W. M. Boothby.)
10. I. A preliminary note on the food requirement in hyperthyroidism. II. A comparison of hyperthyroidism in men and in women. Med. Clin. N. Amer., 1921, v, 425–438. (With W. M. Boothby.)
11. A comparison of the DuBois and the Harris and Benedict normal standards for the estimation of the basal metabolic rate. Jour. Biol. Chem., 1922, liv, 767–781. With W. M. Boothby.)
12. Summary of basal metabolism data on 8,614 subjects with especial reference to the normal standards for the estimation of the basal metabolic rate. Jour. Biol. Chem., 1922, liv, 783–803. (With W. M. Boothby.)
13. Total metabolism in exophthalmic goiter. Jour. Biol. Chem., 1922, l, xlvii. (With W. M. Boothby.)
14. The calorigenic action of adrenalin chlorid. (Abst.) Am. Jour. Physiol., 1923, lxiii, 407; lxvi, 93–123. (With W. M. Boothby.)
15. The total and the nitrogenous metabolism in exophthalmic goiter. Jour. Am. Med. Assn., 1923, lxxxi, 795–800. (With W. M. Boothby.)
16. Basal metabolism. Physiol. Rev., 1924, iv, 69–161. (With W. M. Boothby.)
17. Estimation of the surface area of the fetus, and a graphic comparison of the various surface area formulas. Jour. Biol. Chem., 1924, lxii, 323–328.
18. The basal metabolism before, during, and after pregnancy. Jour. Biol. Chem., 1924, lxii, 329–352. (With Theodora Wheeler.)
19. Preliminary report on the basal metabolism of 157 normal school children between the ages of five and seventeen years. Jour. Biol. Chem., 1925, lxiii, xxxv–xxxvii. (With Ethel R. Harrington.)
20. The effect of thyroxin on the respiratory and nitrogenous metabolism of normal and myxedematous subjects. I. A method of studying the reserve or deposit protein with a preliminary report of the results obtained. Ergebn. d. Physiol., 1925, xxiv, 728–756; Tr. Assn. Am. Phys., 1925, xl, 195–228. (With W. M. Boothby, Kathleen Sandiford, and J. Slosse.)
21. The specific dynamic action of carbohydrates. Proc. Soc. Exper. Biol. and Med., 1925, xxiii, 85–87. (With H. J. Deuel, Jr.)

Sandiford, Kathleen, B.A., was born March 8, 1896 in Ellenburg, New York, and received the degree of B.A. from Radcliffe College, Cambridge, Massachusetts, in 1919. She has been a fellow in biological chemistry in The Mayo Foundation since October 1, 1920. Her services for five years and three months have been in metabolism. Her address is Rochester, Minnesota.

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Bibliography.—1. The amino-acid nitrogen in the blood and its possible relation to the elevation of the metabolism in myelogenous leukemia. Jour. Biol. Chem., 1923, lv, xxiii–xxiv. (With W. M. Boothby and H. Z. Giffin.)

2. The amino-acid content of the blood in normal and pathologic conditions. Jour. Biol. Chem., 1924, lviii, 845–857. (With Helen Ross and C. H. Greene.)

3. The effect of thyroxin on the respiratory and nitrogenous metabolism of normal and myxedematous subjects. I. A method of studying the reserve or deposit protein with a preliminary report of the results obtained. Ergebn. d. Physiol., 1925, xxiv, 728–756; Tr. Assn. Am. Phys., 1925, xl, 195–228. (With W. M. Boothby, Irene Sandiford, and J. Slosse.)

Sanford, Arthur H., B.A., M.D., was born January 12, 1882 at New Albin, Iowa; received the degree of B.A. in 1904, of M.A. (in Physiology) in 1907, and of M.D. in 1907, from Northwestern University, Chicago; and was on the teaching staff of Marquette University, Milwaukee, Wisconsin, from 1907 to 1911, first as assistant professor, then as associate professor, and later as professor of physiology. He came to the Mayo Clinic June 1, 1911 as bacteriologist, and is now director of the clinical laboratories. He is professor of clinical pathology, The Mayo Foundation, Graduate School, University of Minnesota. He is a major in the Medical Reserve Corps, and a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the American Medical Association, the American Society of Bacteriologists, the American Association of Pathologists and Bacteriologists, the American Society of Clinical Pathologists, the American Association for the Advancement of Science, the American Society of Immunologists, the Society of Experimental Biology and

Arthur H. Sanford

Medicine, the American Society of Tropical Medicine, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Sigma Nu, Phi Beta Kappa, Alpha Kappa Kappa, and Sigma Xi. He married Margaret L. Seager August 23, 1906. His address is Rochester, Minnesota.

Bibliography.—

1. Simultaneous sphygmomanometric pressures as modified by postures. Jour. Am. Med. Assn., 1908, l, 504–511.
2. Noguchi and other reactions. St. Paul Med. Jour., 1912, xiv, 461–471.
3. Malaria in northern states. St. Paul Med. Jour., 1913, xv, 83–86.
4. Results of intravenous injections of extracts of goiter on blood pressure in the dog. Med. Rec., 1913, lxxxiv, 378–380. (With J. M. Blackford.)
5. Diphtheria bacillus carriers treated with cultures of lactic acid bacilli. Med. Rev. of Rev., 1913, xix, 676.
6. A demonstration of a depressor substance in the serum of the blood of patients affected with exophthalmic goiter. Am. Jour. Med. Sc., 1913, cxlvi, 796–802. (With J. M. Blackford.)
7. A comparative study of the effects on blood pressure of the extracts and serums of exophthalmic goiter and of other substances. Jour. Am. Med. Assn., 1914, lvii, 117–122. (With J. M. Blackford.)
8. Clinical value of stool examinations. Wisconsin Med. Jour., 1914, xii, 281–285.
9. Intestinal parasites of Minnesota. Journal-Lancet, 1914, xxxiv, 335–338.
10. The relation of amebiasis to pyorrhea alveolaris. Surg., Gynec., and Obst., 1916, xxii, 27–33. (With G. B. New.)
11. Iso-agglutination groups. A diagram showing their interrelation. Jour. Am. Med. Assn., 1916, lxvii, 808–809.
12. The geographic distribution of amebiasis. Jour. Am. Med. Assn., 1916, lxvii, 1923–1926.
13. The significance of lamblia intestinalis in stool examinations. Jour. Lab. and Clin. Med., 1917, ii, 618–621. (With A. H. Logan.)
14. Selection of the donor for transfusion. Journal-Lancet, 1917, xxxvii, 698–701.
15. Tetanus and the war. A review of the literature. Internat. Assn. Med. Mus., 1918, vii, 365–398.
16. A modification of the Moss method of determining isohemagglutination groups. Jour. Am. Med. Assn., 1918, lxx, 1221.
17. The estimation of urobilin and urobilinogen in the duodenal contents. Am. Jour. Med. Sc., 1918, clv, 562–573. (With H. Z. Giffin and T. L. Szlapka.)
18. Fragility of erythrocytes. Jour. Lab. and Clin. Med., 1919, iv, 465. (With H. Z. Giffin.)
19. Blood transfusion: Indications for its use; methods of selecting donor; and a brief consideration of technic. Med. Clin. North Amer., 1919, iii, 801–819.
20. Diagnostic methods in the anemias. New York State Jour. Med., 1919, xix, 415–419.
21. Clinical laboratories: Their place in hospital functions. Hospital Progress, 1920, i, 302–304.
22. Protein sensitization in asthma and hay fever. Minn. Med., 1920, iii, 174–180.
23. The preparation of amboceptor with human erythrocytes. Am. Jour. Syph., 1290, iv, 697–701.
24. Hypersensitivity to food proteins. Med. Clin. North Amer., 1921, v, 535–548.
25. The significance of slight albuminuria. Med. Ins. and Health Conservation, 1921, xxx, 209–219. (With H. M. Conner, T. B. Magath, and F. J. Heck.)
26. New clinical laboratory methods. An editorial survey. Internat. Med. and Surg. Survey, 1921.
27. The etiology and laboratory diagnosis of actinomycosis. Minn. Med., 1922, v, 71–80. (With T. B. Magath.)

28. The Wassermann reaction. Ann. Clin. Med., 1922, i, 161–163.
29. The Wassermann reaction in diabetes. Am. Jour. Syph., 1923, vii, 679–686. (With R. Rockwood.)
30. Distribution of actinomycosis in the United States. Jour. Am. Med. Assn., 1923, lxxxi, 655–659.
31. A proposed buffered physiologic salt solution to be used in serology. Jour. Lab. and Clin. Med., 1924, ix, 313–316. (With E. C. Mason.)
32. Modified Gram stain (Ruhland). Jour. Lab. and Clin. Med., 1925, x, 668.
33. Actinomycosis in the United States. Arch. Surg., 1925, xi, 809–841. (With Minna Voelker.)
34. The anticomplementary reaction of blood serum or of spinal fluid. Jour. Lab. and Clin. Med., 1926, xi, 413–420.

Sargeant, Howard L., B.S., M.D., was born January 14, 1888 in Sargeant, Minnesota; received the degree of B.S. in 1911 from Carleton College, Northfield, Minnesota, and the degree of M.D. in 1917 from the University of Minnesota; was intern at the City and County Hospital, St. Paul, for one year, and practiced in Lowery, Minnesota, for four months in 1918, and in Dalton, Minnesota, from February, 1919 to October, 1922. For eight months in 1918 he served with the base hospital units in the United States Army. He entered The Mayo Foundation October 1, 1922 as a fellow in medicine; his services included general diagnosis, fifteen months, and pediatrics, four months. He left The Mayo Foundation May 2, 1924 to practice in Fergus Falls, Minnesota. He is a member of the Park Region Medical Society, the Minnesota State Medical Association, the Northern Minnesota Medical Association, and the American Medical Association. He married Mabel Engebretson July 2, 1920. His address is Fergus Falls, Minnesota.

Howard L. Sargeant

Sawyer, Frances M., B.S., M.S., was born April 22, 1900 in South Milwaukee, Wisconsin; received the degree of B.S. in 1922, and of M.S. in 1923, from the University of Wisconsin, and entered The Mayo Foundation July 1, 1923 as a fellow in physiological chemistry. Her services to January 1, 1926 included physiologic chemistry, two years, and medical chemistry, three months. Her address is Rochester, Minnesota.

Frances M. Sawyer

Bibliography.—1. The rate of filtration of some aqueous solutions. Am. Jour. Physiol., 1926, lxxvi, 197. (With S. Amberg.)
2. The rate of filtration of protein solutions, particularly of mucin. Jour. Pharmacol. and Exper. Therap., 1926, xxix, 339–354. (With S. Amberg.)

Sayers, Frank E., B.S., M.D., was born March 5, 1889 in Fisher, Illinois; received the degree of B.S. in 1921, and of M.D. in 1913, from the University of Michigan, Ann Arbor, Michigan; was intern at the City Hospital in Youngstown, Ohio, from 1913 to 1914; practiced in Normal, Illinois, for three years, and was in the Medical Corps, U. S. N., from 1917 to 1919. He entered The Mayo Foundation January 15, 1920 as a fellow in medicine; his services included general diagnosis, five and one-half months, and dermatology and syphilology, nine months. He left The Mayo Foundation May 1, 1921, and practiced internal medicine in Brazil, Indiana until July 1, 1922, when he transferred his practice to Terre Haute. He is a member of the Vigo County Medical Society, the Indiana State Medical Association, and the American Medical Association. He married Julia Farrington September 24, 1912. His address is 318 McKeen Block, Terre Haute, Indiana.

Frank E. Sayers

Bibliography.—1. Syphilis of the lungs. Jour. Indiana Med. Assn., 1924, xvii, 83–87.

Scarborough, James I., B.A., M.D., F.A.C.S., was born August 26, 1880 in Kosciusko, Mississippi; received the degree of B.A. from Princeton University, Princeton, New Jersey, in 1904, and of M.D. from Johns Hopkins University, Baltimore, in 1908; was intern, assistant resident surgeon, and resident surgeon in the Union Memorial Hospital, Baltimore, from 1908 to 1912. He entered the Mayo Clinic October 1, 1912, as a fellow in surgery; his services included surgical pathology, nine months, and surgery, six months. He left the Mayo Clinic January 1, 1914, to establish a practice in surgery at Little Rock, Arkansas. During the war he served as Major in the Medical Corps, U. S. A., and was chief of the surgical service in the Base Hospitals at Camp Logan and Fort Sam Houston. He is a member of the Pulaski County Medical Society, the Arkansas State Medical Association, the Southern Surgical Association, the American College of Surgeons, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Mary R. Carter March 16, 1916. His address is Trinity Hospital, Little Rock, Arkansas.

James I. Scarborough

Schaefer, John H., M.D., was born September 27, 1890 in Springfield, Missouri; received the degree of M.D. in 1916 from the College of Physicians and Surgeons, University of Southern California, and attended Leland Stanford University in 1922 to 1923. He was in industrial practice in Los Angeles for six months in 1916; in private practice in Kerman, California, from January 1, 1917 to March 16, 1918, and in Clovis, California, from January, 1920 to October, 1922. During the war he was with the Base Hospital unit, U. S. A., at Fort Sam Houston, Texas from March 16 to August 1, 1918, and with Base Hospital 91, A. E. F. from November 1, 1918 to June 23, 1919. He was appointed Captain in the Medical Officers' Reserve Corps November 28, 1919 and Major, December 23, 1924. He entered The Mayo Foundation October 1, 1923 as a fellow in

John H. Schaefer

pathology; his service included pathologic anatomy, one year; experimental pathology, thirteen months, and nine months at the Medical School, University of Minnesota. He left the Foundation August 1, 1926 to establish a practice in Los Angeles. He is a member of the California Medical Association, the Association of Military Surgeons, and Alpha Kappa Kappa. He married Virginia R. Harris May 29, 1915. His address is 1052 West Sixth Street, Los Angeles, California.

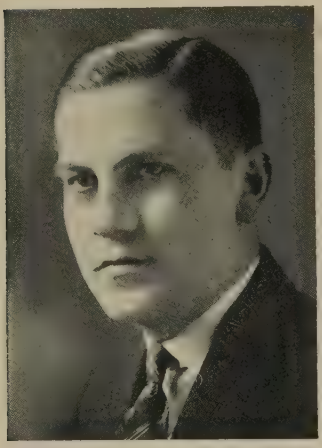
Bibliography.—1. Studies on blood fibrin; its quantitative determination; normal fibrin values, and factors which influence the quantity of blood fibrin. Am. Jour. Path., 1925, i, 101–115. (With E. W. Schultz and J. K. Nicholes.)

2. The normal weight of the pancreas in the adult human being: a biometric study. Anat. Rec., 1926, xxxii, 119–132.

Schmidt, Edna V., B.S., was born October 4, 1885 in Chicago; received the degree of B.S. from the University of Chicago in 1907. She entered The Mayo Foundation August 2, 1920 as a fellow in clinical pathology; her services included clinical pathology, six months, and clinical chemistry, eight months. Since October, 1921, she has been in charge of the laboratory of clinical chemistry, Mayo Clinic. Her address is Rochester, Minnesota.

Edna V. Schmidt

Schmitt, Earl O. G., B.A., B.S., M.B., M.D., was born March 9, 1899 in Roscoe, Minnesota; received from the University of Minnesota the degree of B.A. in 1919, of B.S. in 1921, of M.B. in 1922, and of M.D. in 1923, and was intern at the City and County Hospital, St. Paul, Minnesota, from December, 1921 to June, 1922, and at the Providence Hospital, Detroit, Michigan, from August, 1922 to August, 1923. He entered the Mayo Foundation October 1, 1923, as a fellow in medicine; his services to January 1, 1926 included general diagnosis, eighteen months; neurology, six months, and pediatrics, three months. He was appointed first assistant in one of the sections on medicine January 1, 1926. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, Sigma Phi Epsilon, and Phi Rho Sigma. His address is Rochester, Minnesota.



Earl O. G. Schmitt

Bibliography.—1. The association between diabetes mellitus and chronic infectious arthritis. Jour. Am. Med. Assn., 1926, lxxxvi, 535–536. (With S. F. Adams.)

Schneider, Edwin H., M.D., was born February 7, 1886 in St. Paul, Minnesota, and received the degree of M.D. from the University of Minnesota in 1910. He entered the Mayo Clinic June 15, 1910 as assistant; his services included surgery, seventeen and one-half months (half-time the last six months); and general diagnosis, one year (half-time the first six months). He left the Mayo Clinic July 1, 1912 to practice surgery at Los Angeles. He is a member of the Los Angeles Surgical Society, the Los Angeles County Medical Society, the Southern California Medical Society, the California Medical Association, the Society for Study of Internal Secretions, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. His address is 806 C. C. Chapman Building, Los Angeles, California.

Edwin H. Schneider

Bibliography.—1. Goiter; diagnosis and treatment based upon 1,000 cases. South. Calif. Pract., 1913, xxviii, 323–327.

2. Exophthalmic goiter: indications and contraindications to operation. Calif. State Jour. Med., 1913, xi, 437–439.
3. Syphilis of the thyroid gland; report of a case. Calif. State Jour. Med., 1918, xvi, 484.
4. Adenomata of the thyroid gland. Calif. State Jour. Med., 1924, xxii, 22–24.

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Bibliography.—1. Anthrax: Comparison of surgical and nonsurgical methods of treatment. A review of fifty-one cases treated at the Massachusetts General Hospital from 1888 to 1918. Jour. Am. Med. Assn., 1920, lxxiv, 1441–1444.
2. A case of probable paraffin-oil tumor. Arch. Dermat. and Syph., 1921, iv, 50–54. (With J. H. Stokes.)
3. Prolonged anuria. Report of a case. Jour. Am. Med. Assn., 1921, lxxvi, 368–370. (With G. S. Foulds.)
4. Sacral anesthesia in urology. Jour. Urol., 1921, vi, 149–167.
5. Squamous-cell carcinoma of the urinary bladder. Arch. Surg., 1921, iii, 336–347.
6. Histology and mortality in cases of tumor of the bladder. Surg., Gynec., and Obst., 1922, xxxiv, 189–198.

7. The potential malignancy in exstrophy of the bladder. Ann. Surg., 1922, lxxv, 365–371.
8. Primary tumors of the urethra. Ann. Surg., 1922, lxxvi, 246–259. (With W. F. Braasch.)
9. Pathological complications with duplication of the renal pelvis and ureter (double kidney). Surg., Gynec., and Obst., 1922, xxxv, 401–417.
10. Preoperative treatment by radium of malignant tumors of the bladder. Arch. Surg., 1922, v, 334–347. Radium, 1922, i, 209–221. (With W. F. Braasch.)
11. Further experiences in sacral anesthesia in urology. Califnrnia State Jour. Med., 1922, xx, 423–425.
12. Horseshoe kidney. Jour. Am. Med. Assn., 1922, lxxix, 1189–1196. (With E. S. Judd and W. F. Braasch.)
13. Lipoma of the perineum. Report of a case. Jour. Am. Med. Assn., 1922, lxxix, 1994–1996. (With F. W. Rankin.)
14. Roentgenography of the urinary tract during the excretion of sodium iodid. Jour. Am. Med. Assn., 1923, lxxx, 368–373. (With E. D. Osborne, C. G. Sutherland, and L. G. Rowntree.)
15. Resection of the proximal colon for malignancy. Arch. Surg., 1923, vii, 258–279. (With F. W. Rankin.)
16. Papillary tumors of the renal pelvis. Surg., Gynec., and Obst., 1924, xxxviii, 186–199.
17. Excerpts from articles on urologic surgery with comments. Arch. Surg., 1924, viii, 681–704. (With E. S. Judd, W. F. Braasch, and L. D. Keyser.)
18. Thrombosis and embolism resulting from renal tumors. Jour. Am. Med. Assn., 1924, lxxxii, 75–78. (With E. S. Judd.)
19. Possible errors in diagnosis of renal tuberculosis. Jour. Am. Med. Assn., 1924, lxxxii, 688–692. (With W. F. Braasch.)
20. A study of histology and mortality in renal tumors. Surg. Clin. N. Amer., 1924, iv, 407–424. (With W. F. Braasch and G. S. Foulds.)
21. Diverticulum of the urinary bladder. Surg., Gynec., and Obst., 1924, xxxviii, 14–26. (With E. S. Judd.)
22. Surgery of the kidney and ureter. Atlantic Med. Jour., 1924, xxvii, 331–335. (With E. S. Judd.)
23. Surgery of renal tuberculosis. Ann. Surg., 1924, lxxix, 395–409. (With E. S. Judd.)
24. Review of cases of hydronephrosis and pyonephrosis. Surg. Clin. N. Amer., 1924, iv, 425–449. (With E. S. Judd.)
25. A review of urologic surgery. Arch. Surg., 1924, ix, 653–688. (With E. S. Judd, L. D. Keyser, and G. S. Foulds.)
26. Sacral nerve block anesthesia. The anatomy involved, technic, and clinical application. Ann. Surg., 1924, lxxx, 739–772. (With W. R. Meeker.)
27. Renal calculus. Texas State Jour. Med., 1924, xx, 434–439. (With E. S. Judd.)
28. Tumors involving the dome of the bladder. Jour. Am. Med. Assn., 1924, lxxxiii, 1147–1152.
29. Squamous-cell tumors of the renal pelvis. Ann. Surg., 1924, lxxx, 594–605. (With G. S. Foulds.)
30. A review of urologic surgery. Arch. Surg., 1925, x, 774–812; xi, 152–170, 304–328. (With E. S. Judd, L. D. Keyser, G. S. Foulds, and J. Verbrugge.)
31. Ureteral stones. Surg. Clin. N. Amer., 1925, v, 813–827. (With H. C. Bumpus, Jr.)
32. Schistosomiasis. Arch. Surg., 1926. (In press.) (With B. H. Hager.)

Scholl, Robert F., M.D., was born May 17, 1890 in New Haven, Connecticut; received the degree of M.D. in 1912 from Yale University; was intern at the New Haven Hospital for three months, and at the Fordham Hospital, New York City, for two years, and practiced in New Haven, Connecticut, from 1914 to 1924, except for the time spent in service with the National Guard at the Mexican border from July to November, 1916, and in the Medical Corps, U. S. A., from May, 1918 to October, 1919. He entered The Mayo Foundation as a fellow in medicine April 1, 1924; his services included medical hospital service, nine months; general diagnosis, six months; proctology, three months, and roentgenology, six months. He left the Foundation April 1, 1926 and returned to New Haven to resume practice in gastro-enterology and proctology. He is a member of the New Haven Medical Association, the American Medical Association, and Alpha Kappa Kappa. He married Ethel K. Lindsey July 10, 1918. His address is 215 Whitney Avenue, New Haven, Connecticut.

Robert F. Scholl

Schoonover, Frank S., Jr., B.S., M.D., M.S. in Urology, was born December 28, 1892 in Ogden, Utah; received the degree of B.S. from the University of Rochester, New York, in 1915, of M.D. from Columbia University, New York City, in 1918, and of M.S. in Urology from the University of Minnesota in 1923; was intern at the Presbyterian Hospital, New York City, four months; at St. Mary's Free Hospital for Children, New York City, five months, and at the New York Nursery and Children's Hospital, one month. From July, 1918 to January, 1919 he was First Lieutenant, Medical Corps, in surgical service at the Base Hospital, Camp Dix, and from January to October, 1919 at Base Hospital 106, A. E. F. He entered The Mayo Foundation October 5, 1919 as a fellow in surgery, but transferred his major to urology, January 1, 1922; his services included neurology, three months; radium therapy, three months (part time); orthopedic

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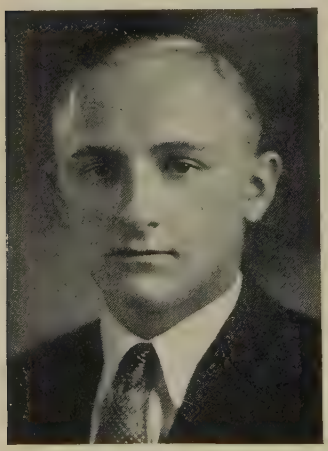
surgery, three months; urology, eighteen months; operative surgery, six months, and surgical pathology, three months. He left The Mayo Foundation July 1, 1923, and is now urologist at the City-County Hospital and at the Harris Clinic, Fort Worth, Texas. He is a member of the Tarrant County Medical Society, the State Medical Association of Texas, the Southern Medical Association, the American Urological Association, and the American Medical Association. He married Ann M. Simmons February 9, 1922. His address is Harris Hospital, Fort Worth, Texas.

Bibliography.—1. Duplication of the renal pelvis and ureter, unsuccessful hemineph-rectomy. Jour. Urol., 1922, viii, 155–158.
2. Tuberculosis of the testicle: its relation to tuberculosis of other genitalia. Texas State Jour. Med., 1924, xix, 561–565.
3. New method of handling small bladder diverticula. Jour. Am. Med. Assn., 1924, lxxxiii, 1164.
4. Prostatic deaths. South. Med. Jour., 1925, xviii, 607–616.
5. Adequate treatment for hereditary lues. Texas State Jour. Med., 1925, xxi, 199–202.
6. Prostatectomy, the control of hemorrhage. Jour. Urol., 1925, xiv, 57–58.
7. Prostatectomy: the follow-up record in forty-two cases. Texas State Jour. Med., 1925, xxi, 505, 506.

Schulz, Irwin, B.S., M.D., was born May 20, 1900 in Milwaukee, Wisconsin; received the degree of B.S. in 1921 from the University of Wisconsin, and the degree of M.D. in 1923 from Marquette University, Milwaukee; was intern at the Milwaukee Hospital in 1923 and 1924, and entered The Mayo Foundation July 1, 1924 as a fellow in medicine. His services to January 1, 1926 included medical hospital service, six months; general diagnosis, nine months, and dermatology and syphilology, three months. He is a member of Olmsted County Medical Society, the Minnesota State Medical Association, the American Medical Association, Phi Beta Pi, and Sigma Phi Epsilon. His address is Rochester, Minnesota.



Irwin Schulz

Scott, Arthur C., Jr., B.A., M.D., was born December 19, 1890 in Gainesville, Texas; received the degree of B.A. from the University of Texas in 1914, and of M.D. from Harvard University, Cambridge, Massachusetts, in 1918, and was intern at the Massachusetts General Hospital, Boston, from 1918 to 1919. He entered The Mayo Foundation April 1, 1919 as a fellow in medicine; his services included general diagnosis, nine months, and surgical pathology, three months. He left The Mayo Foundation April 1, 1920 to become a member of the surgical staff of the Temple Sanatorium, Temple, Texas. He is a member of the Bell County Medical Society, the State Medical Association of Texas, The Texas Surgical Society, the Southern Medical Association, the Society for the Study of Endocrinology, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Harriet Brown September 5, 1916. His address is the Temple Sanatorium, Temple, Texas.

Arthur C. Scott, Jr.

Bibliography.—1. Prevention of disease and safe treatment of the sick. Texas State Jour. Med., 1924, xx, 75–79.

2. Hospital standardization from the doctor's viewpoint. Southwestern Med., 1924, viii, 401–404.

3. Intestinal anastomosis by rapid suture clamp. Texas State Jour. Med., 1925, xxi, 303–306.

Seed, Lindon, B.A., M.D., M.S. in Surgery, was born December 10, 1897 in Wallaceburg, Ontario; received the degree of B.A. from the University of North Dakota in 1918, of M.D. from Rush Medical College, University of Chicago, in 1920, and of M.S. in Surgery from the University of Minnesota in 1925; was intern at the Gary Hospital of the Illinois Steel Company, Gary, Indiana, for four months in 1920, and at the Presbyterian Hospital, Chicago, from September, 1920 to November, 1921. During the war he served for three months as a private in the Depot Battalion, Canadian Ontario Regiment. He entered The Mayo Foundation January 1, 1922 as a fellow in surgery; his services included general diagnosis, one year; sur-

Lindon Seed

gical pathology, six months (part time), and operative surgery, two years, one year of which time he was senior resident at the Kahler Hospital. He left The Mayo Foundation January 9, 1925 and entered practice in Chicago. He is an instructor in the department of surgery at the University of Illinois. He is a member of the Chicago Medical Society, the Illinois State Medical Association, the Medical Research Club (University of Illinois), the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Alpha Kappa Kappa. He married Frances L. Cathro August 17, 1920. His address is 2755 West North Avenue, Chicago.

Bibliography.—1. Degeneration of fibromyomata of the uterus. Surg., Gynec., and Obst., 1925, xli, 333–341.

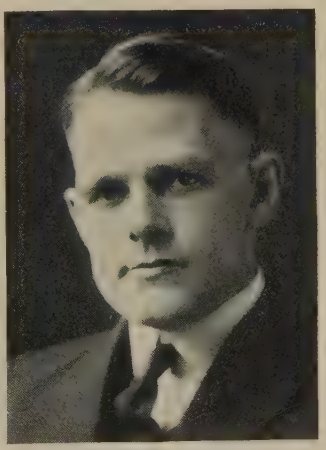
Seeger, Stanley J., M.D., F.A.C.S., was born June 21, 1889 in Manitowoc, Wisconsin; attended Marquette University, Milwaukee, Wisconsin, during 1906 and 1907; received the degree of M.D. from Northwestern University, Chicago, in 1911; was intern at the Michael Reese Hospital, Chicago, from March, 1911 to June, 1913, and assistant to Dr. J. G. Cross, internist, in the Minneapolis General Hospital, from September, 1913 to March, 1915. He entered The Mayo Foundation April 21, 1915 as a fellow in surgery; his service consisted of surgery, two years. He left The Mayo Foundation April 1, 1917 to establish a practice in surgery in Milwaukee, Wisconsin. From August, 1918 to February, 1919 he served as First Lieutenant in the Medical Corps, U. S. A., stationed first at Fort Ogelthorpe, and later at Camp Custer, and at the Detroit General Hospital. He is attending surgeon at the Milwaukee Children's, the Evangelical Deaconess, the Johnston Emergency, the Milwaukee and Columbia Hospitals. He is a member of the Milwaukee Academy of Medicine, the Milwaukee Surgical Society, the American College of Surgeons, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Helen Buchanan October 1, 1918. His address is 1310 Wells Building, Milwaukee, Wisconsin.

Stanley J. Seeger

Bibliography.—1. Selection of operation in toxic goiter. Wisconsin Med. Jour., 1921, xx, 175–178.
2. Pancreatic lithiasis. Surg., Gynec., and Obst., 1925, xl, 841–846.
3. Cystinuric lithiasis. Jour. Am. Med. Assn., 1925, lxxxv, 4–7. (With W. M. Kearns.)
4. Appendicitis in infancy and childhood. Surg., Gynec., and Obst., 1926, xlii, 536–539.

Selby, John H., M.D., was born February 27, 1878 in Columbia, South Carolina; received the degree of M.D. from the University of Pennsylvania in 1907; was intern in the Moses Taylor Hospital, Buffalo, one year, and in the Moses Taylor Hospital, Scranton, Pennsylvania, one year. He came to the Mayo Clinic as an associate in the Section on Roentgenology in January, 1910, and was appointed head of the section in May, 1910. He resigned January 1, 1913 to establish a roentgen-ray laboratory in Washington, D. C. From July, 1917 to September, 1919 he served as Major in the Medical Corps, U. S. A. as Chief of the X-ray Service in Walter Reed Hospital, Washington, D. C. From October, 1919 to November, 1920 he held the same position in the Letterman General Hospital, San Francisco, California. He is now practicing roentgenology at Akron, Ohio. He is a member of the Summit County Medical Society, the Ohio State Medical Association, the American Roentgen-Ray Society, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Delia T. Slaughter October 6, 1909. His address is 315 Second National Bank Building, Akron, Ohio.

Senty, Elmer G., B.S., M.D., M.S. in Medicine, F.A.C.P., was born June 24, 1891 in Arcadia, Wisconsin; received the degree of B.S. from the University of Wisconsin in 1914, of M.D. from Rush Medical College, University of Chicago, in 1916, and of M.S. in Medicine from the University of Minnesota in 1922; was intern in the Mobridge Hospital, South Dakota, two years, and practiced medicine in McIntosh, South Dakota, eighteen months. He entered The Mayo Foundation November 11, 1919 as a fellow in medicine; his services included clinical pathology, four and one-half months; general diagnosis, one year; dermatology and syphilology, six months; research and general diagnosis, three months; neurology, six months; medical hospital residence, six months, and roentgenology, three months. He left The Mayo Foundation July 1, 1923 to establish a practice in Davenport, Iowa. He is a member of the Scott County Medical Society, the Iowa State Medical Society, the American College of Physicians, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Alpha Kappa Kappa. He married Winifred Miller December 27, 1916. His address is 404 Central Office Building, Davenport, Iowa.



Elmer G. Senty

Bibliography.—1. Benign tumors of the stomach. Surg., Gynec., and Obst., 1922, xxxiv, 5–15. (With G. B. Eusterman.)
2. A comparative study of various methods of hemoglobin determinations. Jour. Lab. and Clin. Med., 1923, viii, 591–604.
3. The thyroid: diagnosis and treatment, medical considerations. Jour. Iowa State Med. Soc., 1926, xvi, 103–107.

Settelen, Max E., M.D., D.D.S., was born February 11, 1894 in Basel, Switzerland; studied in Basel and Geneva; received the degree of M.D. in 1920 from Basel University, and the degree of D.D.S. in 1922 from the University of Zurich, and entered The Mayo Foundation July 2, 1923, as a fellow in otolaryngology. After fifteen months of service in the Section on Laryngology, Oral and Plastic, he left the Foundation October 7, 1924, and returned to Switzerland to work at the otolaryngological clinic of the Basel University. He is First Lieutenant in the Medical Corps of the Swiss Army. He is a member of the Swiss Medical Association and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Madeleine Zaeslé June 12, 1923. His address is 44 Hebelstrasse, Basel, Switzerland.

Max E. Settelen

Bibliography.—1. Ueber kongenitale Larynxatresie. Arch. f. Laryngol. u. Rhinol., 1921, xxxiv, 309–318.
2. Ueber congenitale Hyperplasie der Thymusmetamere IV. Schweiz. med. Wchnschr., 1921, li, 811.
3. Eine neue Sprechcanule für Tracheotomierte. Ztschr. f. Hals-, Nasen-u. Ohrenh., 1925, xi. (In press.)

Settle, Francis B., M.D., was born October 26, 1891 at Blackwell, Missouri; attended the University of Missouri from 1909 to 1913; received the degree of M.D. from St. Louis University in 1918; and was intern at the Lutheran Hospital, St. Louis, from May, 1917 to January, 1918; at the Missouri Baptist Sanitarium from January, 1918 to September, 1918, and from September, 1918 to February, 1919 served as First Lieutenant in the Medical Reserve Corps, stationed at the U. S. Marine Hospital, St. Louis, Missouri. He came to The Mayo Foundation February 4, 1919, as a fellow in surgery; his services included medical hospital residence, three months; orthopedics, one year; general diagnosis, six months, and surgery, eleven months. He left The Mayo Foundation September 18, 1921. He is now practicing surgery at Long Beach, California, where he is also staff surgeon at the Long Beach Sanitarium. He is a member of the Los Angeles Medical Society, the Los Angeles County and Harbor Branch Society, the California Medical Association, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Anna Marquardt January 24, 1921. His address is 610 Security Building, Long Beach, California.

Francis B. Settle

Shaffer, Loren W., B.S., M.D., was born November 2, 1892 in Donegal, Pennsylvania; received the degree of B.S. in 1915, and of M.D. in 1917, from the University of Michigan, Ann Arbor, Michigan; was in the United States Navy for four and one-half years, and entered The Mayo Foundation July 1, 1922 as a fellow in dermatology and syphilology. He had the service of dermatology and syphilology for twenty-nine months, and left the Foundation December 1, 1924 to go to the University of Pennsylvania as assistant professor of dermatology and syphilology. In August, 1925 he began practicing dermatology and syphilology in Detroit, Michigan. He is a member of the Wayne County Medical Society, the Michigan State Medical Society, the American Medical Associa-

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tion, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Phi Beta Pi, and Alpha Omega Alpha. He married Louise M. Avery June 13, 1917. His address is 805 Kresge Building, Detroit, Michigan.

Bibliography.—1. Four centuries in the treatment of syphilis. U. S. Nav. Med. Bull., 1921, xv, 749–762; Mil. Surg., 1921, xlix, 566–579.
2. Asymptomatic neurosyphilis developing during systematic treatment. Arch. Dermat. and Syph., 1924, x, 209–213.
3. The effect of hydrogen-ion concentration on precipitation of colloidal benzoin and gold solutions by cerebrospinal fluid. Jour. Lab. and Clin. Med., 1924, ix, 757–765.
4. Results secured by standard methods of treatment in neurosyphilis. Review of 405 cases. Jour. Am. Med. Assn., 1924, lxxxiii, 1826–1831. (With J. H. Stokes.)
5. The clinical management of the tabetic patient. Jour. Am. Med. Assn., 1925, lxxxv, 1271–1275.

Shafter, Royce R., B.S., M.D., was born August 30, 1900 in Cleveland, Ohio; received the degrees of B.S. in 1921 and M.D. in 1923 from the University of Michigan, Ann Arbor; was intern at the Butterworth Hospital, Grand Rapids, Michigan, from July, 1923 to July, 1924, and practiced three months in Detroit, Michigan, entering The Mayo Foundation October 1, 1924 as a fellow in surgery. His services to January 1, 1926 included postoperative treatment, three months; general diagnosis, nine months, and medical hospital service, three months. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, and Phi Chi. He married Shirley Salisbury September 24, 1924. His address is Rochester, Minnesota.

Royce R. Shafter

Sheard, Charles, B.A., M.A., Ph.D., was born May 26, 1883 in Dolgeville, New York; and received the degrees of B.A. in 1903 from St. Lawrence University, Canton, New York, of M.A. in 1907 from Dartmouth College, and of Ph.D. in 1912 from Princeton University, having a fellowship in physics at Princeton in 1911 and 1912. His teaching experience comprises the following: science, Waterville High School, New York, 1903–04; science, Rockland Military Academy, West Lebanon, New Hampshire, 1904–05; assistant in physics, Dartmouth College, 1905–07; instructor in physics, Ohio State University, 1907–10; assistant professor in physics, Ohio State University, 1910–14; professor of physics and director of courses in applied optics, Ohio State University, 1914–19, and head of the Scientific Bureau of the American Optical Company at Southbridge, Massachusetts, from 1919 to March, 1924, when he came to the Mayo Clinic as head of the Section on Physics, and as professor of physiological optics, The Mayo Foundation, Graduate School, University of Minnesota. He is a member of the American Optical Association, the Optical Society of America, the Franklin Institute (Philadelphia), fellow of the American Physical Society, and of the Ophthalmic Institute of Great Britian, honorary fellow of the Optical Society of Great Britian, and editor of the American Journal of Physiological Optics. He married Blanche Amaral December 31, 1907. His address is Rochester, Minnesota.

Charles Sheard

Bibliography.—1. Effects of current density and capacity on argon and hydrogen spectra. Phys. Rev., 1909, xxviii, 6.

2. On the free vibrations of a lecher system. Phys. Rev., 1911, xxxii, 533–560; 1912, xxxv, 1–26; 1914, n. s., iii, 217–231; 1917, n. s., ix, 177–192.

3. The ionization produced by heated salts. Philosophical Mag., 1913, xxvi, 370–389.

4. Positive emission currents from hot platinum. Phys. Rev., 1912, xxxiv, 391.

5. On temperature and surface conditions which affect the positive ionization from heated platinum. Phys. Rev., 1913, n. s., ii, 288–298.

6. Dioptric formulæ for cylindrical lenses combined at oblique axes. Phys. Rev., 1914, n. s. iv, 274–277.

7. The positive ionization from heated platinum. Philosophical Mag., 1914, xxviii, 170–187.

8. The variation of positive emission currents from hot platinum with the applied potential difference. Philosophical Mag., 1916, xxxi, 497–505.

9. The spectra of some halogen compounds and phenomena connected therewith. Ohio Jour. Sc., 1916, xvi, 113–124.

10. On ocular movements and the center of ocular rotation. Jour. Ophth., Otol., and Laryngol., 1916, xxii, 971–990; Jour. Am. Inst. Homeopath., 1918–1919, xi, 771–782. (With J. A. Ferree.)

11. The scissor movement in retinoscopy. Ophth. Rec., 1916, xxv, 382–389.
12. A case of divergent strabismus coupled with autonomic control of the refractive status of the eyes and the treatment thereof. Ophth. Rec., 1916, xxv, 455–460.
13. A case of refraction demanding cylinders crossed at oblique axes, together with the theory and practice involved. Ophth. Rec., 1916, xxv, 558–567.
14. Mathematical studies in optics. A series of twenty-five articles. Optical Jour. and Rev., 1910–1916 (New York).
15. Dynamic skiametry and ocular accommodation. A series of forty articles. Keystone Mag. of Optics, 1916–1919.
16. Dynamic ocular tests. Columbus, Lawrence Publishing Company, 1917, 143 pp.
17. Absorption of ultraviolet and infra-red radiations by glasses. Jour. Optical Soc. Amer., 1919, ii–iii, 26–34. (With A. W. Smith.)
18. On the electrical responses of the eye to stimulation by light of various wave-lengths. Am. Jour. Physiol., 1919, xlviii, 45–66. (With C. McPeek.)
19. Diffraction in the human eye and the phenomena of colored rings surrounding luminous sources. Am. Jour. Ophth., 1919, S. 3, ii, 185–195.
20. Physiological optics. Chicago, Cleveland Press, 1919, 513 pp.; Am. Encyclopedia of Ophth.
21. Dynamic skiametry and methods of testing the accommodation and convergence of the eyes. Chicago, Cleveland Press, 1920, 108 pp.; Am. Encyclopedia of Ophth.
22. Ocular accommodation. Dept. of Education, Am. Optometric Assn., 1920, 76 pp.
23. Static and dynamic skiametry. Brochure, Dept. of Education, Am. Optometric Assn., 1920, 50 pp.
24. Thomas Young, the father of physiological optics. Am. Jour. Physiol. Optics, 1920, i, 9–14.
25. Transmission of radiant energy by ophthalmic glasses. Chicago, Cleveland Press, 1921, 84 pp.
26. Photo-electric currents in the eye. Phys. Rev., 1921, i, 84–110.
27. Erythropsia. Am. Jour. Physiol. Optics, 1920, i, 171–174.
28. On accommodative exophoria or the accommodation associated with the act of convergence. Am. Jour. Physiol. Optics, 1920, i, 234–249.
29. Ophthalmometry and its applications to ocular refraction and eye examinations. Am. Jour. Physiol. Optics, 1920, i, 357–397.
30. The movements of the eye during reading. (Editorial.) Am. Jour. Physiol. Optics, 1921, ii, 161–167.
31. Some factors affecting visual acuity. Am. Jour. Physiol. Optics, 1921, ii, 168–184.
32. Hyperphoria. (Editorial.) Am. Jour. Physiol. Optics, 1921, ii, 226–231.
33. Pertaining to the influence exerted on both eyes by a single prism before one eye. (Editorial.) Am. Jour. Physiol. Optics, 1922, iii, 152–157.
34. The comparative value of various methods and practices in skiametry. Am. Jour. Physiol. Optics, 1922, iii, 177–208.
35. The effective power of an ophthalmic lens. Am. Jour. Physiol. Optics, 1922, iii, 338–347.
36. Some important physical and physiological relationships between radiant energy and the visual apparatus and processes. Tr. Brit. Optical Soc., 1922, xxiii, 1–23; Am. Jour. Physiol. Optics, 1922, iii, 391–429.
37. A new and sensitive astigmatic test dial. Am. Jour. Physiol. Optics, 1923, iv, 163–166.
38. Some fundamental points in testing and correcting astigmatism. (Editorial.) Am. Jour. Physiol. Optics, 1923, iv, 167–177.
39. The dominant or sighting eye. (Editorial.) Am. Jour. Physiol. Optics, 1923, iv, 49–54, 294–308.
40. Research and spectacles; the lensometer, for measuring the true power of ophthalmic lenses. Scient. Am., 1923, cxxviii, 21.

41. The physiological effects of radiant energy, especially upon the human eye. New York State Med. Jour., 1923, xxiii, 292–300; Am. Jour. Physiol. Optics, 1924, v, 214–241.
42. Some points in handling cases of presbyopia and subnormal accommodation. Am. Jour. Physiol. Optics, 1923, iv, 202–224.
43. Orthophoria and ocular vergence. Am. Jour. Physiol. Optics, 1923, iv, 422–431.
44. A dozen worth-while points in ocular refraction. Arch. Ophthal., 1923, iv, 443–455.
45. Alternating monocular visual supremacy in binocular vision. (Editorial.) Am. Jour. Physiol. Optics, 1924, v, 57–62.
46. Quality as well as quantity in the functions of accommodation and binocular single vision. (Editorial.) Am. Jour. Physiol. Optics, 1924, v, 210–213.
47. Some theoretical and practical points of interest in visual optics. Jour. Ophth., Otol., and Laryngol., 1924, xxviii, 80–100; Am. Jour. Physiol. Optics, 1924, v, 376–393.
48. The importance of a consideration of muscular defects of the eyes from the innervational standpoint. (Editorial.) Am. Jour. Physiol. Optics, 1924, v, 449–456.
49. Cyclophoria. (Editorial.) Am. Jour. Physiol. Optics, 1924, v, 457–467.
50. On the effects of quality and quantity of illumination on vision. Am. Jour. Physiol. Optics, 1924, v, 468–475.
51. Illumination and its effects on the human eye. Nation's Health, 1924, vi, 316–320.
52. Applications of a fundamental mathematical equation to ocular refraction and ophthalmic lenses. Am. Jour. Ophth., 1924, vii, 597–602.
53. Instantaneous photomicrography of the skin capillaries in the living human body. Science, 1924, lx, 409–410.
54. Some fundamental principles of modern ophthalmic lenses. Am. Jour. Physiol. Optics, 1925, vi, 32–48.
55. Some further comments on cyclophoria. (Editorial.) Am. Jour. Physiol. Optics, 1925, vi, 65–69.
56. Electromotive phenomena in the eye. (Editorial.) Am. Jour. Physiol. Optics, 1925, vi, 207–217.
57. On the observation of blood corpuscle movements in the retinal capillaries. (Editorial.) Am. Jour. Physiol. Optics, 1925, vi, 218–223.
58. Studies on the physiology of the liver. XI. The extrahepatic formation of bilirubin. Am. Jour. Physiol., 1925, lxxiv, 49–60. (With F. C. Mann and J. L. Bollman.)
59. Photochemical action and photo-receptors. (Editorial.) Am. Jour. Physiol. Optics, 1925, vi, 380–390.
60. Some comments on the static and dynamic methods of skiametry. (Editorial.) Am. Jour. Physiol. Optics, 1925, vi, 527–548.
61. Accommodative or physiological exophoria with comments on the prescribing of prisms. Am. Jour. Physiol. Optics, 1925, vi, 580–591.
62. A method for instantaneous photomicrography of the skin capillaries. Jour. Lab. and Clin. Med., 1925, x, 925–929.
63. The site of the formation of bilirubin. Am. Jour. Physiol., 1925, lxxiv, 497–510. (With F. C. Mann, J. L. Bollman, and E. J. Baldes.)
64. Light units and photometric standards. (Editorial.) Am. Jour. Physiol. Optics, 1926, vii, 62–63.
65. On certain characteristics of the ophthalmoscope. (Editorial.) Am. Jour. Physiol. Optics, 1926, vii, 64–71.
66. Spectral radiation. (Editorial.) Am. Jour. Physiol. Optics, 1926, vii, 72–75.
67. A subjective method of skiascopy and its applications to investigations of the chromatic aberration of the eye, chromatic variations in the interval of Sturm and allied phenomena. Am. Jour. Physiol. Optics, 1926, vii, 76–129.
68. Spectrophotometric determinations of bilirubin. Am. Jour. Physiol., 1926, lxxvi, 577–585. (With E. J. Baldes, F. C. Mann, and J. L. Bollman.)

69. The formation of bile pigment from hemoglobin. Am. Jour. Physiol., 1926, lxxvi, 306–315. (With F. C. Mann, J. L. Bollman, and E. J. Baldes.)
70. Instantaneous photomicrography of the blood platelets, with comments on their morphology. Arch. Path. and Lab. Med., 1926, i, 742–746. (With R. Rockwood.)
71. The chromatic aberration of the eye, the chromatic variations in the interval of Sturm, and allied phenomena as determined by a subjective method of skiascopy. Jour. Optical Soc. of America, 1926, xii, 79–118.

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Walter D. Shelden

Bibliography.—1. Retroperitoneal sarcoma. Jour. Minn. Med. Assn., 1906, xxvi, 342–346. (With J. F. Corbett.)
2. A short study of the metabolism in a case of diabetes. Jour. Minn. Med. Assn., 1908, xxviii, 283–286.
3. Diagnosis of pleural effusions. Arizona Med. Jour., 1913–1914, 5–9.
4. Clinical and radiologic findings in pulmonary tuberculosis: the value of a co-operative diagnosis. Journal-Lancet, 1915, xxxv, 223–229. (With H. Z. Giffin.)
5. Tumors involving the gasserian ganglion. Jour. Am. Med. Assn., 1921, lxxvii, 700–705.
6. Tardy paralysis of the ulnar nerve. Med. Clin. N. Amer., 1921, v, 499–509.
7. The nervous system: a clinic. Journal-Lancet, 1924, xliv, 389–392.

Shephard, John H., B.S., M.D., was born February 20, 1879 in Fort Madison, Iowa; received the degree of B.S. from the University of Chicago in 1902, and of M.D. from Rush Medical College, University of Chicago, in 1904; was intern at the Michael Reese Hospital, Chicago, from May, 1904 to May, 1906, and practiced at Cœur d'Alene, Idaho, from 1906 to 1916. He entered The Mayo Foundation as a fellow in surgery March 1, 1917; his services included general diagnosis, seventeen months; neurology, three months; surgery, eleven months; roentgenology, three months, and surgical pathology, five months. He left the Foundation June 1, 1920, and is practicing in San José, California. He has been made vice-president of the O'Connor Sanitarium in San José for the year 1925 to 1926. He is a member of the California Medical Association, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Vera Nevers June 25, 1908. His address is 314 Twohy Building, San José, California.

John H. Shephard

Bibliography.—1. Squamous-cell epithelioma of the lip; its surgical indications. Surg., Gynec., and Obst., 1922, xxxv, 107–109.
2. Adenomata of the thyroid. Calif. State Jour. Med., 1923, xxi, 16–19.
3. Esophageal diverticula. Calif. and West. Med., 1924, xxii, 208–211.
4. Factors influencing the morbidity and mortality of exophthalmic goiter. Calif. and West. Med., 1925, xxiii, 1146–1149.

Shippey, Stuart H., Ph.G., M.D., was born October 3, 1895 in Wewahitchka, Florida; received the degree of Ph.G. in 1916 from Mercer University, Macon, Georgia, and of M.D. in 1923 from Emory University, Atlanta, Georgia, and was intern at the Piedmont Sanatorium in Atlanta from June, 1923 to July, 1924, when he entered The Mayo Foundation as a fellow in medicine. His service to January 1, 1926 included eighteen months of general diagnosis. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the American Medical Association, Sigma Alpha Epsilon, and Alpha Kappa Kappa, and is a diplomate of the National Board of Medical Examiners. He married Margaret Britton June 16, 1924. His address is Rochester, Minnesota.

Stuart H. Shippey

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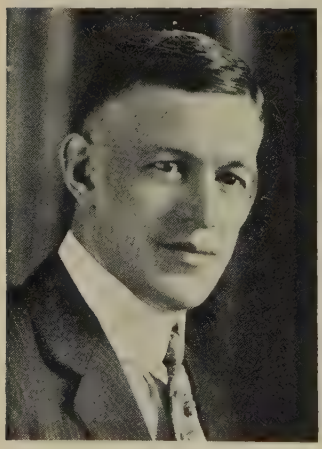
Harold E. Simon

Bibliography.—1. Brodie's abscess. Arch. Surg., 1924, ix, 504–515. (With M. S. Henderson.)

Simpson, Ellery DeW., B.A., M.D., was born August 29, 1887 in Westminster, Maryland; received the degree of B.A. from the Western Maryland College, Westminster, Maryland, in 1908, and of M.D. from Johns Hopkins University, Baltimore, in 1912, and was intern at St. Luke's Hospital, St. Paul, from July, 1912 to July, 1913. He entered The Mayo Foundation July 1, 1913 as a fellow in surgery; his services included surgical pathology, nine months; surgery, nine months, and general diagnosis, eighteen months. He left The Mayo Foundation June 19, 1916 to establish a practice in surgery in Minneapolis. He is a member of the Hennepin County Medical Society, the Minnesota State Medical Association, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Myrtle Pearce September 30, 1913. His address is 600 Physicians and Surgeons Building, Minneapolis.



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Bibliography.—1. The small kidney, with special reference to the new formation of tubules. Jour. Med. Res., 1914–1915, xxxi, 301–311.

Simpson, J. Knox, M.D., was born June 8, 1886 at Laurens, South Carolina; attended Clemson College, South Carolina, from 1901 to 1904, and received the degree of M.D. from the University of Pennsylvania in 1909. He came to the Mayo Clinic July 1, 1909, and was house surgeon at St. Mary's Hospital until July, 1910. Besides assisting in the operating room, this service included cystoscopic work and the postoperative care of the patients. He left the Clinic in July, 1910. From June, 1911 to June, 1912 he was resident surgeon at St. Luke's Hospital, Jacksonville, Florida. He is now attending surgeon and president of the staff at St. Luke's Hospital, attending orthopedist for Duval County Hospital, and for the United States Veterans' Bureau, Unit 14, District 5, attending orthopedist in charge of Florida State Fund for Crippled Children, and consulting orthopedist for United States Veterans' Bureau Hospital 63, Lake City, Florida. During the war he was Lieutenant in the United States Naval Reserve Corps, on active duty from 1917 to 1919 as Surgeon, and Chief of the Surgical Service, United States Naval Hospital, Charleston, South Carolina. He is a member of the Duval County Medical Society, the Florida State Medical Association, the Southern Medical Association, the Southern Surgical Association, the American Medical Association, the American Society for the Control of Cancer, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Marie L. Sproull November 6, 1919. His address is 712 Laura Street, Jacksonville, Florida.

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Bibliography.—1. The cystoscope in surgical diagnosis. South. Med. Jour., 1913, vi, 800–804.
2. The abuse of the curet. Jour. Florida Med. Assn., 1914, i, 45–49.
3. Supraclavicular brachial plexus block. Jour. Florida Med. Assn., 1915, ii, 161–165.
4. Volkman's contracture. Jour. Florida Med. Assn., 1917, iv, 35–36.
5. Stricture of the ureter, with report of two interesting cases. Jour. Florida Med. Assn., 1919, vi, 55–58.
6. Retroperitoneal cysts. South. Med. Jour., 1923, xvi, 121–124.
7. Congenital club-feet. Jour. Florida Med. Assn., 1923, x, 117–118.
8. Problem of the crippled child. Jour. Florida Med. Assn., 1924, xi, 62–63.
9. The state's duty to the crippled child. South. Med. Jour., 1924, xvii, 800–803.
10. Acute osteomyelitis. Jour. Florida Med. Assn., 1924, xi, 101–105.

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Bibliography.—1. Hydronephrosis. Wisconsin Med. Jour., 1922, xxi, 132–136.
2. Essential hematuria. Wisconsin Med. Jour., 1922, xxi, 23–24.
3. Diverticulum of the bladder—report of a case. Wisconsin Med. Jour., 1922, xxi, 235–236.
4. Benign hypertrophy of the prostate gland, with especial reference to preoperative care. Wisconsin Med. Jour., 1923, xxii, 62–65.
5. Cystography in diagnosis of urologic conditions. Wisconsin Med. Jour., 1923, xxii, 160–164.
6. Spontaneous expulsion of papilloma of the bladder with cure. Jour. Urol., 1923, x, 325–327.
7. Urologic phase of pernicious anemia. Jour. Am. Med. Assn., 1923, lxxxi, 1675–1676.
8. Benign hypertrophy of the prostate gland. Wisconsin Med. Jour., 1924, xxiii, 82–86.
9. Diverticulum of the urethra. Jour. Urol., 1924, xii, 169–174.
10. Urologic diagnosis. Wisconsin Med. Jour., 1924, xxiii, 139–144.
11. Kinks of the ureter. Jour. Urol., 1924, xii, 223–226.

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Bibliography.—1. Curettage: its abuses and indications. New Orleans Med. and Surg. Jour., 1909–10, lxii, 782–788.

2. The treatment of hookworm disease. New Orleans Med. and Surg. Jour., 1910, lxiii, 261–270.

3. Intestinal parasites found in individuals residing in the Northwest; frequent presence of protozoa in patients who have never been in southern countries. Jour. Am. Med. Assn., 1911, lvii, 1507–1509.

4. Benign and malignant ovarian cysts; a report of 1,000 specimens. Surg., Gynec., and Obst., 1913, xvii, 41–51. (With W. C. MacCarty.)

5. End results in operations for cancer of the breast. Surg., Gynec., and Obst., 1914, xviii, 289–294. (With E. S. Judd.)

6. Further experiences with the Kondoleon operation for elephantiasis. Jour. Am. Med. Assn., 1918, lxxi, 800–806.

7. Elephantiasis treated by Kondoleon operation. Surg., Gynec., and Obst., 1918, xxvi, 388–393.

8. Practical considerations with regard to permanent colostomies. Surg., Gynec., and Obst., 1919, xxviii, 436–439.

9. The selection of operation for exophthalmic goiter. Jour. Am. Med. Assn., 1920, lxxiv, 306–308.

10. The surgical treatment of cysts of the thyroglossal tract. Ann. Surg., 1920, lxxi, 121–123.

11. Dilatation of the upper portion of the internal saphenous vein simulating femoral hernia. Minn. Med., 1920, iii, 583–585.
12. Mixed tumors of the parotid gland. Minn. Med., 1921, iv, 155–160.
13. The results of surgical treatment of epithelioma of the lip. Ann. Surg., 1921, lxxiii, 521–526.
14. The Kondoleon operation for elephantiasis: Report of the end results. South. Med. Jour., 1921, xiv, 619–626.
15. The indications for surgical treatment in the different types of goiter. Surg., Gynec., and Obst., 1921, xxxiii, 348–352.
16. Cancer of the breast. Surg. Clin. N. Amer., 1921, i, 1503–1508. Cysts of the thyroglossal tract, 1509–1513. Tumor of the parotid gland, 1515–1521. Elephantiasis, 1523–1529.
17. Cancer of the breast with a study of the results obtained in 218 cases. Penn. Med. Jour., 1921, xxiv, 781–786.
18. The surgical removal of pancreatic stones. Ann. Surg., 1921, lxxiv, 380–384.
19. Cancer of the breast: the results obtained in 218 operations. Journal-Lancet, 1922, xlii, 75–81.
20. Life expectancy following radical amputation for carcinoma of the breast: A clinical and pathologic study of 218 cases. Ann. Surg., 1922, lxxv, 61–69. (With W. C. MacCarty.)
21. The surgical aspects of benign lesions of the breast. New Orleans Med. and Surg. Jour., 1922, lxxv, 47–57.
22. The results obtained in elephantiasis through the Kondoleon operation. Minn. Med., 1923, vi, 173–177.
23. The reduction of surgical mortality. New Orleans Med. and Surg. Jour., 1924, lxxvii, 63–68.
24. Ethylene anesthesia. (Editorial.) Minn. Med., 1924, vii, 563–564.
25. Radiation in the female breast before and after operation. South. Med. Jour., 1924, xvii, 201–203.
26. Partial thyroidectomy for exophthalmic goiter. Surg. Clin. N. Amer., 1924, iv, 459–463.
27. The treatment of cancer of the colon. Jour. Michigan State Med. Soc., 1925, xxiv, 28.
28. Carcinoma of the cecum and ascending colon. Surg. Clin. N. Amer., 1925, v, 729–735.
29. Methods of avoiding and treating complications following gastro-enterostomy. South. Med. Jour., 1926. (In press.)
30. Surgery of the colon. Jour. Med. Assn., Georgia, 1926. (In press.)
31. Surgical treatment of diseases of the colon. Texas State Jour. Med., 1926. (In press.)

Smiley, Kenneth E., B.S., M.D., was born October 15, 1896 in Santa Ana, California; received the degree of B.S. in 1917 from Occidental College in Los Angeles, and the degree of M.D. in 1921 from Johns Hopkins University; was intern at Lane Hospital in San Francisco in 1921 and 1922, and entered The Mayo Foundation July 15, 1922 as a fellow in surgery. His service included one year of general diagnosis, when he left the Foundation to practice surgery in Los Angeles, California; he is on the staff of the Good Samaritan Hospital. He is a member of the Los Angeles County Medical Society and the California Medical Association. He married Katherine West August 26, 1925. His address is 1111 Brockman Building, 520 West Seventh Street, Los Angeles, California.

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Arthur A. Smith

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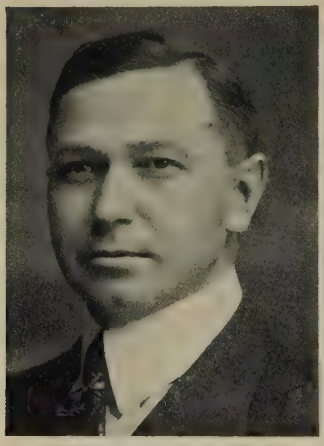
Smith, Ernest V., M.D., F.A.C.S., was born June 15, 1880 at Elwood, Indiana; attended Wabash College, Crawfordsville, Indiana, from 1897 to 1901; received the degree of M.D. from the University of Minnesota in 1907; practiced in Adams, Minnesota, until June, 1912, when he entered the Mayo Clinic as a fellow in surgery. His services included surgical pathology, thirteen months, and surgery, thirty-eight months. He left the Clinic September 15, 1916 to practice in Indianapolis; he is now practicing surgery at Fond du Lac, Wisconsin, and is connected with the Wiley-Smith Clinic there. He is a member of the Fond du Lac County Medical Society and the Fox River Valley Medical Society, the Tri-State Medical Society, the American Medical Association, the American College of Surgeons, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Catherine J. Fisher October 16, 1907. His address is Wiley-Smith Clinic, Fond du Lac, Wisconsin.



Ernest V. Smith

Bibliography.—1. The iodin content of the thyroid gland with special reference to the pathologic types and a review of some experimental work. Jour. Am. Med. Assn., 1914, lxii, 113–117. (With A. C. Broders.)

2. Diagnosis and cautery treatment of carcinoma of the cervix. Interstate Med. Jour., 1916, xxiii, 1087–1096.

3. Surgical versus medical treatment of goiter. Wisconsin Med. Jour., 1918, xvi, 388–391.

4. Some essential factors in modern surgery. Railway Surg. Jour., 1920–1921, xxvii, 45–49.

5. The relationship between the pathology and symptomatology of goiter. Wisconsin Med. Jour., 1921, xx, 179–181.

6. Tetanus and its treatment. Journal-Lancet, 1922, xlii, 141–146.

Smith, Frederick L., B.A., M.D., was born May 1, 1879 in Waseca, Minnesota; received the degree of B.A. in 1903, and of M.D. in 1906, from the University of Minnesota; was intern at St. Mary's Hospital, Duluth, Minnesota, from June, 1906 to June, 1907; practiced in Duluth from June, 1907 to March, 1908; in Chatfield, Minnesota, from March, 1908 to March, 1913, and in Eyota, Minnesota, from March, 1913 to June, 1917. He came to the Mayo Clinic July 1, 1917 as an associate in the Section on Postoperative Treatment. He is an instructor in surgery, The Mayo Foundation, Graduate School, University of Minnesota. During the war he was in active service as Captain in the Sanitary Company of the Minnesota Home Guard. He is now Major in the Medical Reserve Corps, U. S. A. He is a member of the Olmsted County Medical Society, the Southern Minnesota Medical Association, the Minnesota State Medical Association, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Acacia, and Nu Sigma Nu. He married Stella Greene June 10, 1908. His address is Rochester, Minnesota.

Frederick L. Smith

Bibliography.—1. Postoperative wound complications. Southwest. Med., 1921, v, 8–12.

2. Removing deep sutures. Jour. Am. Med. Assn., 1924, lxxii, 206–207.

3. Radiodermatitis and its treatment. Surg. Clin. N. Amer., 1924, iv, 479–493; New Orleans Med. and Surg. Jour., 1924, lxxvii, 177–183. (With A. U. Desjardins.)

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Margaret I. Smith

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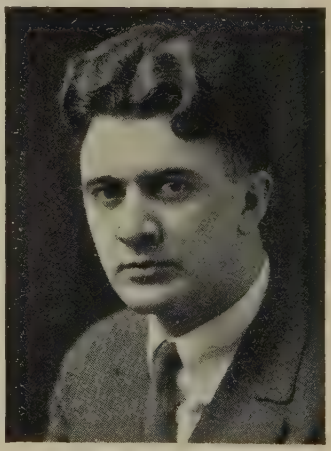

Newton D. Smith

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Bibliography.—1. An adaptation of the hemacytometer and outfit to the needs of the practicing physician. Med. Rec., 1904, lxvi, 797.

2. Dislocated thyroid cartilage of the larynx. Jour. Am. Med. Assn., 1905, xlv, 43.

3. Tuberculin in diagnosis and therapy. Physician and Surg., 1907, xxix, 385–400.

4. The treatment of arthritis by localized passive hyperemia. (Bier's stasis.) Jour. Michigan Med. Soc., 1907, vi, 398–406.

5. A case of arthritis deformans treated by Bier's passive hyperemia. Physician and Surg., 1907, xxix, 209–213.
6. Hemiplegia as a complication in typhoid fever, with report of a case. Jour. Am. Med. Assn., 1907, xlix, 389–395.
7. A new graphic urine chart for the urine findings in diabetes mellitus. Jour. Am. Med. Assn., 1907, xlviii, 1677.
8. Paravertebral triangle of dulness (Grocco's sign) in a case of abdominal multilocular cystadenoma. Jour. Am. Med. Assn., 1908, i, 1491–1495.
9. Clinical observations upon the existence of a paravertebral triangle of percussion dulness (Grocco's sign) when fluid is present in the pleural sacs. Physician and Surg., 1908, xxxiii, 145–157.
10. A case of aneurysm of the arch of the aorta. Physician and Surg., 1908, xxx, 33–36.
11. Calmette's ophthalmic reaction to tuberculin; preliminary report based on 242 cases. Physician and Surg., 1908, xxx, 394–413; Jour. Am. Med. Assn., 1908, l, 259–267. (With R. B. Walker.)
12. A résumé of the treatment of cerebrospinal meningitis with the diplococcus antiserum of Flexner and Gobling. Physician and Surg., 1908, xxx, 295–303.
13. The paravertebral triangle of dulness (Grocco's sign) in pregnancy. Am. Jour. Med. Sc., 1908, cxxxvi, 525–532; Physician and Surg., 1908, xxx, 443–450.
14. Clinical aspects of tumors of the mediastinum, with consideration of the findings in four cases. Jour. Am. Med. Assn., 1908, li, 897–903.
15. The conjunctival tuberculin reaction as a means of diagnosis and control. Jour. Am. Med. Assn., 1909, lii, 25–31. (With R. B. Walker.)
16. Deviation of complement with failure of complete hemolysis (Wassermann reaction) in certain nonsyphilitic human sera. Jour. Am. Med. Assn., 1909, lii, 1330. (With J. G. Cumming.)
17. The blood serum tests for syphilis, with practical consideration of the Wassermann reaction. Physician and Surg., 1909, xxxi, 153–165. (With J. G. Cumming.)
18. Hemolysis and its diagnostic significance in cancer and tuberculosis. Med. Rec., 1909, lxxvi, 901–905; Physician and Surg., 1909, xxxi, 442–452.
19. Extralaryngeal causes of laryngeal symptoms. Ann. Otol., Rhinol., and Laryngol., 1909, xxxi, 289–300.
20. Cardiac thrombosis: the clinical and pathologic findings in three cases. Jour. Am. Med. Assn., 1909, liii, 1347–1353.
21. The diagnosis and treatment of pleurisy with effusion. Jour. Michigan Med. Soc., 1909, viii, 105–121.
22. Further studies of the diagnostic value of the hemolytic test in cancer and tuberculosis. Arch. Diagn., 1910, iii, 24–36; Jour. Michigan Med. Soc., 1910, ix, 237–245.
23. Some of the newer methods for the detection of tubercle bacilli, with especial reference to the so-called "antiformin" method. Jour. Michigan Med. Soc., 1911, x, 233–237. (With S. Ide.)
24. The occurrence of trichomonas hominis in gastric contents with report of two cases. Am. Jour. Med. Sc., 1912, cxliv, 82–94.
25. The diagnostic worth of the glycyltryptophan and the tryptophan tests in diseases of the stomach: A report of 1,175 cases studied by a uniform method. Arch. Int. Med., 1912, x, 357–368.
26. The glycyltryptophan (peptid) splitting agent in human saliva. Arch. Int. Med., 1912, x, 521–533.
27. The diagnostic significance of the paravertebral triangle of percussion dulness (Grocco's sign). Arch. Diagn., 1912, v, 109–125.
28. A simplified technic for the application of the glycyltryptophan test to gastric contents. Jour. Am. Med. Assn., 1912, lxiii, 1008–1009.

29. A method for the microscopic examination of gastric extracts and of feces. Arch. Int. Med., 1912, viii, 736–738.
30. Note on a peptid-splitting agent in human blood serum. Jour. Am. Med. Assn., 1912, lix, 539.
31. The significance of gastric ulcer with respect to gastric cancer, a study of 566 consecutive operatively and pathologically demonstrated cases of cancer of the stomach. Jour. Am. Med. Assn., 1913, lxi, 1793–1799; Tr. Am. Gastro-enterol. Assn., 1913, xvi, 56–77.
32. Gastric ulcer without food retention; a clinical analysis of 140 operatively demonstrated cases. Am. Jour. Med. Sc., 1913, clxv, 340–357.
33. The treatment of the cachexia of malnutrition by metagastric (duodenojejunal) administration of artificially prepared end products of digestion (aromatic amino-acids and maltose); a preliminary report. New York Med. Jour., 1913, xcviii, 619–620.
34. A study of the value of the quantitative estimation of dissolved albumin in gastric extracts (Wolff-Junghans' test) in the diagnosis of gastric cancer. Am. Jour. Med. Sc., 1914, cxlvii, 713–720.
35. A new fluoroscopic sign for the differentiation of pyloric spasm of extragastric origin; from that associated with uncomplicated gastric ulcer on or near the lesser curvature. Jour. Am. Med. Assn., 1914, lxii, 1308–1309.
36. Contributions of the twentieth century toward a better understanding of gastric cancer. Tr. Med. Assn., Alabama, 1914, 731–739.
37. Gastric cancer in the young; a study of sixteen instances in patients under the age of thirty-one. Tr. Med. Assn., Alabama, 1914, 1839–1844.
38. A new motor meal and lavage tube. Jour. Am. Med. Assn., 1914, lxii, 453–454.
39. On the diagnostic worth of laboratory data in gastric cancer (an analysis of the finding of 700 cases operatively and pathologically demonstrated). Illinois Med. Jour., 1915, xxvii, 126–129.
40. What facts of diagnostic or prognostic value can be determined from test-meal examination of patients with gastric symptoms? A clinical analysis of 7,041 consecutive cases examined by a uniform method. Am. Jour. Med. Sc., 1915, cxlix, 183–193.
41. On diagnosis and prognosis in gastric ulcer, a clinical study of 500 consecutive operatively demonstrated cases; preliminary report. Interstate Med. Jour., 1915, xxii, 207–219; Ohio Med. Jour., 1915, xi, 82–88.
42. Position for patients during fluoroscopy. Jour. Am. Med. Assn., 1915, lxiv, 1442.
43. A summary of the essential points in the diagnosis of gastric ulcer. Arch. Diagn., 1915, viii, 147–150.
44. The early diagnosis of cancer of the stomach; a study of 921 operatively and pathologically demonstrated cases. Am. Jour. Surg., 1915, xxix, 255–262.
45. Syphilis of the stomach, a clinical study of twenty-six instances of dyspepsia; associated with positive Wassermann-Noguchi reactions. Jour. Am. Med. Assn., 1915, lxv, 572–577.
46. Symptoms and signs of gastric cancer; an analysis of 712 consecutive operatively and pathologically proved cases. Jour. Am. Med. Assn., 1915, lxiv, 643–645.
47. On the etiologic relationship existing between gastric ulcer and gastric cancer. Interstate Med. Jour., 1915, xxii, 672–682.
48. Blood cell changes in gastric cancer; a study of 267 consecutive cases. Physician and Surg., 1915, xxxvii, 433–442.
49. Contributions of the twentieth century toward a better understanding of gastro-intestinal ailments. Journal-Lancet, 1915, xxxv, 555–563.
50. Benign pyloric stenosis and its management. Interstate Med. Jour., 1916, xxiii, 845–856. (With A. J. Ochsner.)

51. Cancer of the stomach (with a chapter on surgical treatment by Dr. A. J. Ochsner). Philadelphia, Saunders, 1916, 522 pp.
52. On the etiologic relationship existing between gastric ulcer and gastric cancer; an analysis of 921 cases of gastric cancer and 500 cases of gastric ulcer. Lancet-Clinic, 1916, cxv, 203–209.
53. The diagnosis and treatment of cardiospasm associated with diffuse dilatation of the esophagus. Chicago Med. Rec., 1916, xxxviii, 377–380.
54. Cases illustrating spasm at the cardia and cardiospasm associated with diffuse dilatation of the esophagus. Med. Clin., Chicago, 1916, ii, 607–630.
55. Retroperitoneal sarcoma. Med. Clin. Chicago, 1916–1917, ii, 1037–1056.
56. The clinical significance of the vicarious gastrorrhagia, an analysis of five cases. Illinois Med. Jour., 1916, xxx, 126–132. (With R. Bowen.)
57. Chronic intestinal stasis and its associated so-called toxemia. Surg., Gynec., and Obst., 1916, xxii, 57–61.
58. Syphilis of the stomach, a clinical study of thirty-five instances of organic gastric lesions associated with positive Wassermann-Noguchi reactions. Am. Jour. Syph., 1917, i, 100–110.
59. Chronic intestinal stasis with respect to certain etiologic factors. Tr. Am. Gastro-enterol. Assn., 1917, xii, 151–163.
60. The treatment of pernicious anemia by repeated multiple transfusions of whole blood and splenectomy. Tr. Chicago Soc. Int. Med., 1917, xxiv, 533–544. (With N. M. Percy.)
61. The treatment of chronic protozoic enterocolitis as encountered in the northern United States. Med. and Surg., 1917, i, 460–467.
62. Cases of chronic enterocolitis associated with the presence of protozoa in the stools. Med. Clin. Chicago, 1917, ii, 1109–1142.
63. A treatment of gastric ulcer based upon established clinical, histopathological, and physiological facts. Am. Jour. Med. Sc., 1917, cliii, 547–562.
64. The frequency of protozoic enterocolitis in the middle west. Am. Jour. Med. Sc., 1918, clvi, 173–184; Med. Standard, 1918, xli, 466–472.
65. Gastric function following gastro-enterostomy (an analysis of 273 cases). Surg., Gynec., and Obst., 1918, xxvi, 275–281; Tr. Am. Gastro-enterol. Assn., 1917, xii, 62–77.
66. The relationship of infection in the production of so-called pernicious anemia and its significance with respect to treatment. Med. Rec., 1918, xciii, 172–174.
67. Cases illustrating disease of the gallbladder and the consideration of 1,000 cases of gallbladder disease. Surg. Clin. Chicago, 1918, ii, 505–535.
68. Pericholecystitic adhesions (their importance and clinical recognition). Jour. Am. Med. Assn., 1918, lxxi, 1804–1809.
69. Gastric hemorrhage: Etiology, clinical manifestations, and treatment. Med. and Surg., 1918, ii, 180–189.
70. Chapter on diet in malignant disease of the alimentary tract. In: Fitch, W. E.: System of dietotherapy. New York, Appleton, 1918, 3 vols.
71. Primary carcinoma of the gallbladder. Am. Jour. Med. Sc., 1919, clvii, 67–74; Med. Prog., 1919, xxxv, 270–274.
72. Medicine and Surgery. Quart. Med. Clin., 1919, i, 408 pp.
73. Diagnosis and clinical manifestations of cardiospasm associated with diffuse dilatation of the esophagus. Jour. Roentgenol., 1919, ii, 94–110.
74. Diagnosis of surgical lesions of the stomach and duodenum. In: Ochsner's Surgical Diagnosis and Treatment. Philadelphia, Lea and Febiger, 1920, ii, 559–703.
75. Relationship of infection to the production of so-called "pernicious anemia" and its significance with regard to the treatment of such anemia. Med. Herald, 1920, xxxix, 43–51.

76. Clinical manifestations in gallbladder disease. A study of 1,000 operatively demonstrated cases. Northwest Med., 1920, xix, 31–39.
77. Late cardiorespiratory manifestations of gassing as exhibited by returned soldiers. Ann. Med., 1920, i, 77–85.
78. Significance of etiologic factors in the treatment of peptic ulcer. Jour. Am. Med. Assn., 1920, lxxiv, 1555–1558.
79. A treatment of gastric ulcer based upon modern clinical, histopathological, and physiological investigations. Internat. Jour. Gastro-enterol., 1921, i, 13–21.
80. Diagnosis and clinical manifestations of cardiospasm associated with diffuse dilatation of the esophagus. Am. Jour. Med. Sc., 1921, clxii, 313–325; Tr. Am. Gastro-enterol. Assn., 1920, xxiii, 124–136; Jour. Roentgenol., 1919, ii, 94–110.
81. Nonsurgical drainage of the biliary tract. Its usefulness as a diagnostic and therapeutic agent. Illinois Med. Jour., 1921, xxxix, 325–339.
82. Nonsurgical drainage of the biliary tract. Jour. Am. Med. Assn., 1921, lxxvii, 2036–2043. (With C. F. Karns and R. B. Oleson.)
83. The diagnostic and therapeutic value of nonsurgical biliary tract drainage in patients exhibiting biliary tract disease upon whom surgical procedures have been performed previously. Illinois Med. Jour., 1922, xli, 29–36. (With R. B. Oleson.)
84. Necessity for caution in employing high voltage roentgen-rays as a therapeutic agent against malignant disease; acute adrenal insufficiency and death as sequelæ. Surg., Gynec., and Obst., 1923, xxxvi, 61–63.
85. Certain considerations of thyroid disease from the standpoint of etiology, diagnosis, and clinical management. Ann. Clin. Med., 1923, i, 381–401.
86. Observations upon the nature, diagnosis, and clinical management of gastric ulcer with suggestions for a rational regimen of treatment. Am. Jour. Med. Sc., 1923, clxvi, 781–801.
87. Certain factors to be considered in prognosing cure of peptic ulcer. Ann. Clin. Med., 1924, ii, 262–271; Jour. Michigan Med. Soc., 1924, xxiii, 163–172.
88. Clinical consideration of the management of peptic ulcer. Internat. Clin., 1924, iii, 162–178.
89. The origin and development of ethics in medicine and influence of ethical formulæ upon medical practice. Ann. Clin. Med., 1925, iii, 573–603.
90. Visualization of the biliary tract, a new method of intravenous injections of tetrabromphenolphthalein. Illinois Med. Jour., 1925, xlvii, 97–100. (With R. B. Oleson.)
91. Biliousness, the significance of gallbladder and biliary tract diseases, with observations upon diagnosis and treatment. Jour. Indiana State Med. Assn., 1925, xviii, 90–96.
92. Aseptic irritative phlebitis following intravenous injection of sodium salt of tetrabromphenolphthalein. Jour. Am. Med. Assn., 1925, lxxxiv, 1494–1495. (With R. B. Oleson.)
93. The nonsurgical management of peptic ulcer by the "physiologic rest" method. Results in 470 patients. Jour. Am. Med. Assn., 1925, lxxxv, 674–677.

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Bibliography.—1. Muscular activity and interchange of fluid between blood and tissue spaces. Am. Jour. Physiol., 1917, xliv, 313. (With F. H. Scott and E. T. Herrmann.)
2. Studies in basal metabolism. Jour. Am. Med. Assn., 1920, lxxv, 515–523; Arch. méd. beiges, 1920, lxxiii, 467–493. (With Frances Ford and L. G. Rowntree.)
3. Hypothyroidism. Minn. Med., 1923, vi, 503–506.
4. Studies on liver function in experimental obstructive jaundice. Soc. Clin. Surg., 1924, xxxviii, 30.
5. Clinical and experimental observations on the intravenous use of mercurochrome. Soc. Clin. Surg., 1924, xxxviii, 35; Collected Papers of the Mayo Clinic, 1924, xvi, 1081. (With C. H. Greene and P. S. Hench.)
6. Hepatic functional tests in experimental jaundice. Minn. Med., 1925, viii, 139–142.
7. Diseases of the liver. I. A survey of tests for hepatic function. Arch. Int. Med., 1925, xxxvi, 248–272. (With C. H. Greene and W. Walters.)
8. Diseases of the liver. II. A comparative study of certain tests for hepatic function in experimental obstructive jaundice. Arch. Int. Med., 1925, xxxvi, 273–291. (With C. H. Greene and L. G. Rowntree.)
9. The excretion of mercurochrome in the bile. Jour. Pharmacol. and Exper. Therap., 1925, xxv, 142–144. (With P. S. Hench and C. H. Greene.)
10. Parathyroid extract in the treatment of a case of tetany. Jour. Am. Med. Assn., 1925, lxxxv, 1632–1633.
11. The clinical application of recent studies on jaundice. Surg., Gynec., and Obst., 1926, xlii, 528–535.

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John W. Snyder

Bibliography.—1. A suction apparatus for the establishment of empyema. Surg., Gynec., and Obst., 1921, xxxiii, 568–569.
2. Studies in intrapleural tension. Arch. Surg., 1924, viii, 364–393.
3. Colloid thyroid. Jour. Indiana Med. Assn., 1924, xvii, 210–212.
4. Adenomatosis of the thyroid. Jour. Indiana Med. Assn., 1924, xvii, 337–340.

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Bibliography.—1. Notes on carcinoma of the uterus. Am. Jour. Obst., 1912, lxv, 946–952.
2. Ovarian tumors. Unpublished.
3. Results of myomectomy. St. Paul Med. Jour., 1916, xviii, 344–346.
4. Treatment of menorrhagia with radium. Minn. Med., 1919, ii, 88–92.
5. The treatment of carcinoma of the uterus by radium. Med. Clin. N. Amer., 1919, iii, 705–706.
6. Radium treatment in 600 cases of menorrhagia. Am. Jour. Roentgenol., 1920, vii, 379–382.
7. The treatment of uterine tumors. Jour. Iowa State Med. Soc., 1920, x, 301–303.
8. The treatment of dysmenorrhea. Med. Clin. N. Amer., 1921, v, 473–476.
9. The treatment of primary carcinoma of the vagina with radium. Am. Jour. Roentgenol., 1922, ix, 48–52.
10. The treatment of benign conditions of the pelvis with radium. Am. Jour. Roentgenol., 1922, ix, 658–662.
11. Anteposition and retroposition of the uterus: incidence and symptoms. Jour. Am. Med. Assn., 1922, lxxix, 793–794.
12. Report of three cases: adenocarcinoma of the ovary and tube with tuberculosis, fibromyoma in hernial sac, and solid carcinoma of the left ovary. Med. Clin. N. Amer., 1923, vii, 173–176. (With O. C. Melson.)
13. Treatment of carcinoma of the body of the uterus. Radiology, 1925, v, 331–338.
14. The treatment of menorrhagia. Med. Women's Jour., 1926. (In press.)

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William B. Stark

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Bibliography.—1. Testing of aircraft speed instruments. Washington, Government Printing Office, 1922, Report 127, National Advisory Committee for Aëronautics, Aëronautic Instrument Section.

2. Radium and radium salts. New and non-official remedies, Chicago, American Medical Association, 1923, 255–262.

Steinke, Carl R., B.S., M.S., M.D., F.A.C.S., was born April 29, 1883 at Atlantic, Iowa; received the degree of B.S. in 1905, of M.S. in 1909, from Coe College, Cedar Rapids, Iowa, and of M.D. from the University of Pennsylvania in 1909; was intern at the Pennsylvania Hospital, Philadelphia, from August, 1909 to February, 1910, and at the Episcopal Hospital, Philadelphia, from February 1, 1910 to June 30, 1911. He entered the Mayo Clinic as a fellow in surgery July 1, 1911; his services included surgery, one year. He left the Clinic June 30, 1912, and practiced in Philadelphia three years in association with Dr. Charles H. Frazier. Since leaving Philadelphia he has been practicing surgery in Akron, Ohio. During the war he was First Lieutenant in the Medical Reserve Corps, and was stationed at the Base Hospital at Spartanburg, South Carolina. He is a member of the Celsus Club and Medical Journal Club of Akron, the Summit County Medical Society, the Ohio State Medical Society, the American Medical Association, the American College of Surgeons, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Sigma Xi. He married Ruth Gordon January 18, 1913. His address is Second National Bank Building, Akron, Ohio.

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Bibliography.—1. Transplantation of the ureters into the gastro-intestinal tract. Univ. Penn. Med. Bull., 1909–1910, xxii, 110–121.

2. Simultaneous fracture of both patellæ, with report of two cases and a review of the literature. Ann. Surg., 1913, lxiii, 511–526; Med. and Surg. Rep. Episc. Hosp., Phila., 1914, ii, 205–221; Tr. Phila. Acad. Surg., 1914, xvi, 102–107.

3. Report of two cases of anthrax. Med. and Surg. Rep. Episc. Hosp., Phila., 1914, ii, 138–141. (With J. W. Moore and J. V. Klauder.)

4. Report of two cases of ruptured quadriceps extensor tendon. Med. and Surg. Rep. Episc. Hosp., Phila., 1914, ii, 222–224.

5. Recent traumatic dislocations of the hip, with report of ten cases and their end results. Ann. Surg., 1914, lx, 617–621; Tr. Phila. Acad. Surg., 1915, xvii, 64–70.

6. Leukemia; report of two cases. Jour. Am. Med. Assn., 1915, lxv, 954–955.

7. Fractures of the femur with end results in 62 cases. Ann. Surg., 1915, lxii, 611–618.

8. A hernioplasty retractor. Am. Jour. Surg., 1917, xxxi, 217.

9. Spinal tumors: statistics on a series of 330 collected cases. Jour. Nerv. and Ment. Dis., 1918, xlvii, 418–426.

10. Surgery of the posterior spinal roots, with summaries of results in 244 operations. Surg., Gynec., and Obst., 1918, xxvii, 55–57.

11. New splint for fracture of the humerus. Surg., Gynec., and Obst., 1924, xxxviii, 823.

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Louis A. S. Stewart

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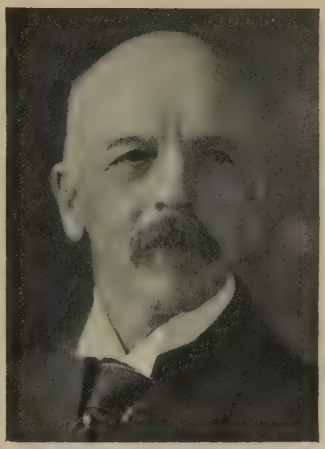

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Bibliography.—1. Psychological influences in health and disease. Tr. Minn. State Med. Soc., 1875, 30–40.
2. Sciatic neuritis. Northwest. Lancet, 1894, xiv, 184.
3. Gastritis. Northwest. Lancet, 1895, xv, 321–324.
4. The treatment of pleurisy. Northwest. Lancet, 1896, xvi, 395.
5. Nervous syndromes of Bright's disease. Northwest. Lancet, 1896, xvi, 449.
6. Bronchitis and its complications. Northwest. Lancet, 1897, xvii, 452–455.
7. Cardiac dilatation. St. Paul Med. Jour., 1900, ii, 610–615.

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Bibliography.—1. The acoustic complex and its relations in the brain of the opossum. Am. Jour. Anat., 1911–1912, xii, 401–445.

2. Three cases of secondary syphilis. Jour. Mich. Med. Soc., 1913, xii, 613–616.

3. Study of the spinal fluid with reference to involvement of the nervous system in secondary syphilis. Jour. Cutan. Dis., 1914, xxxii, 607–623; Dermat. Wchnschr., 1914, lix, 1079, 1107, 1128. (With U. J. Wile.)

4. Lesions produced by bite of "black fly" (simulium venustum). Jour. Cutan. Dis., 1914, xxxii, 751–769, 830–856.

5. Granuloma fungoides; report of an unusual case. Jour. Mich. Med. Soc., 1914, xiii, 709–712.

6. Generalized telangiectasia in association with syphilis. Am. Jour. Med. Sc., 1915, cxlix, 669–696.

7. Further studies on the spinal fluid with reference to the involvement of the nervous system in early syphilis. Jour. Am. Med. Assn., 1915, lxiv, 1465–1470. (With U. J. Wile.)

8. Case of dermatitis herpetiformis. Jour. Mich. Med. Soc., 1915, xiv, 234–236.

9. Involvement of the nervous system during the primary stage of syphilis. Jour. Am. Med. Assn., 1915, lxiv, 979–982. (With U. J. Wile.)

10. Local anesthesia in intravenous injections. Jour. Am. Med. Assn., 1915, lxv, 1027.

11. Acute syphilitic nephritis from the standpoint of diagnosis and salvarsan treatment. Jour. Am. Med. Assn., 1916, lxvi, 1191–1194.
12. The value of contesting a hopelessly fatal issue. Jour. Am. Med. Assn., 1916, lxvi, 674–675.
13. Treatment of syphilis in a general hospital. Modern Hospital, 1916, vi, 3.
14. Intradermal sensitization. I. Intradermal reactions to emulsions of normal and pathologic skin. II. Intradermal reaction to agar. Jour. Infect. Dis., 1916, xviii, 402–436.
15. Clinical and experimental observations on a case of pityriasis lichenoides chronica (Juliusberg). Jour. Cutan. Dis., 1916, xxxiv, 343–351.
16. In-patient hospital in the control and study of syphilis. Social Hygiene, 1916, ii, 207–231.
17. The atypical primary lesion in the early diagnosis of syphilis. Interst. Med. Jour., 1916, xxiii, 616–624.
18. Hospital problems of gonorrhea and syphilis. Jour. Am. Med. Assn., 1916, lxvii, 1960–1962.
19. A "luetin" reaction in syphilis produced by agar with a brief consideration of its mechanism. Jour. Am. Med. Assn., 1917, lxviii, 1092–1095.
20. A clinico-pathologic study of an unusual cutaneous neoplasm combining nevus syringadenomatosus papilliperus and a granuloma. Jour. Cutan. Dis., 1917, xxxv, 412–425.
21. The provocative Wassermann test in the clinical diagnosis of syphilis. Am. Jour. Syphilis, 1917, i, 629–648. (With P. A. O'Leary.)
22. Certain technical refinements in methods of intravenous injection. Med. Rec., 1917, xcii, 529–535.
23. Observations on the intensive combined treatment of syphilis. Miss. Valley Med. Jour., 1918, xxv, 11–16.
24. The venereal disease problem and the war. Internat. Assn. Med. Museums, 1918, vii, 285–326.
25. A "Schreiber" adapter for intravenous injections. Jour. Am. Med. Assn., 1918, lxxi, 108.
26. Medical co-operation in the problem of war syphilis. Minn. Med., 1918, i, 341–350.
27. The third great plague. Philadelphia, Saunders, 1918, 204 pp.
28. Atropin and induced anti-anaphylaxis as a protection against acute arsphenamin reactions. Jour. Am. Med. Assn., 1919, lxxii, 241–243.
29. Clinical studies in cutaneous aspects of tuberculosis. I. "Tuberculous" purpura, erythema multiforme, and erythema nodosum. Am. Jour. Med. Sc., 1919, clvii, 157–170.
30. II. The diagnostic and clinical relations of certain tuberculids. Am. Jour. Med. Sc., 1919, clvii, 313–348.
31. III. The therapeutic management of the tuberculids, with special reference to the efficiency of arsphenamin. Am. Jour. Med. Sc., 1919, clvii, 522–539.
32. Today's world problem in disease prevention. U. S. Public Health Service, Washington, 1919.
33. The need of hospital beds for syphilis. Mod. Hosp., 1919, xii, 390–392.
34. The organization and methods of contagious disease services. Penn. Med. Jour., 1919, xxii, 729–736.
35. Syphilis in railroad employees. (A clinical study of an occupational group.) Jour. Indust. Hygiene, 1919, i, 419–427. (With Helen E. Brehmer.)
36. 1. A case of early lepra. 2. Solitary cutaneous nodular recurrences as aids in the diagnosis of obscure visceral syphilis. 3. Three cases illustrating the diagnosis and treatment of syphilitic involvement of the nervous system. 4. The etiologic analysis of a chronic urticaria following influenza vaccination. 5. Interstitial keratitis in heredosyphilis following influenza, with comment on treatment. 6. The protection of the kidney in intensive antisyphilitic treatment, with special reference to the influence of dental focal infections. Med. Clin. N. Amer., 1919, iii, 821–847.

37. The diagnostic value of lowered bone conduction in syphilis. Am. Jour. Syph., 1919, iii, 240–247. (With W. H. Goeckerman and R. A. Barlow.)
38. Tubing as a cause of reaction to intravenous injection, especially of arsphenamin. Jour. Am. Med. Assn., 1920, lxxiv, 1013–1017. (With G. J. Busman.)
39. A clinical study of Wassermann-fast syphilis, with special reference to prognosis and treatment. Am. Jour. Med. Sc., 1920, clx, 658–668. (With G. J. Busman.)
40. Epidemic infectious jaundice and its relation to the therapy of syphilis. Arch. Int. Med., 1920, xxvi, 521–543. (With R. Ruedemann and W. S. Lemon.)
41. The clinical approach to syphilis, with suggestions for its revival and development. Arch. Dermat. and Syph., 1920, ii, 473–492.
42. The applications and limitations of the arsphenamins in therapeutics. Arch. Dermat. and Syph., 1920, ii, 303–323.
43. A note on syphilitic (?) parenchymatous nephritis. Am. Jour. Syph., 1920, iv, 547–551.
44. The problem of syphilis in general diagnosis. Journal-Lancet, 1920, xl, 457–461.
45. Relative effectiveness of various forms of treatment in neurosyphilis. Jour. Am. Med. Assn., 1921, lxxvi, 708–710. (With E. D. Osborne.)
46. A case of probable paraffin-oil tumor. Arch. Dermat. and Syph., 1921, iv, 50–54. (With A. J. Scholl.)
47. A scheme for presenting the subject of the inflammatory dermatoses to students in terms of fundamental cutaneous reaction signs. Arch. Dermat. and Syph., 1921, iii, 641–647.
48. Public health activity and private practice in venereal disease control. Jour. Am. Med. Assn., 1921, lxxvi, 1266–1267.
49. A technic of intramuscular (epifascial) injection. Med. Rec., 1921, xcix, 730–734.
50. Tuberculosis of the skin in some of its general medical aspects. Northwest. Med., 1921, xx, 79–84.
51. The effect of treatment for syphilis on severe anemias. Am. Jour. Med. Sc., 1921, clxii, 633–647. (With H. O. Foucar.)
52. Erythema nodosum and tuberculosis. Report of a case terminating in tuberculous meningitis, with necropsy. Arch. Dermat. and Syph., 1921, iii, 29–31.
53. A spurious chancre. Arch. Dermat. and Syph., 1921, iii, 295–296.
54. A memorandum on the occupational study of syphilis, with special reference to farmers. Am. Jour. Med. Sc., 1921, clxii, 572–575. (With H. E. Brehmer.)
55. Clinic of Dr. John H. Stokes. Med. Clin. N. Amer., 1921, v, 477–498.
56. The treatment of late syphilis, and of syphilis in mother and child. A résumé of principles. Arch. Dermat. and Syph., 1921, iv, 778–795.
57. Tuberculids in recognition of obscure tuberculosis. Jour. Am. Med. Assn., 1920, lxxiv, 278.
58. Five cases illustrating nonspecific effects of treatment with arsphenamin and the principles underlying therapeutic test for syphilis. Med. Clin. N. Amer., 1921, v, 477–498.
59. Five cases illustrating aspects of treatment of syphilis of cardiovascular system. Med. Clin. N. Amer., 1921, v, 493.
60. Three cases illustrating confusion of gumma with other pathologic processes. Med. Clin. N. Amer., 1921, v, 496.
61. Possible erroneous interpretation of tonsillar chancre and cervical satellite bubo. Med. Clin. N. Amer., 1921, v, 497.
62. Control of exfoliative dermatitis following administration of arsphenamin. Med. Clin. N. Amer., 1921, v, 498.
63. Comparative clinical observations on involvement of the nervous system in various phases of syphilis. Am. Jour. Syphilis, 1922, vi, 169–184. (With A. R. McFarland.)
64. The diagnosis of early syphilis. Am. Jour. Syph., 1922, vi, 395–409. (With A. R. McFarland.)

65. Clinical note on leukoderma acquisitum centrifugum (Sutton). Arch. Dermat. and Syph., 1923, vii, 611–618.
66. Contributory factors in the postarsphenamin dermatitis; with special reference to the influence of focal and intercurrent infection. Arch. Dermat. and Syph., 1923, vii, 14–49. (With E. P. Cathcart.)
67. Acquired lymphangioma of the vulva secondary to tuberculous obliteration of the inguinal glands. Collected Papers Mayo Clinic and Mayo Foundation, 1922, xiv, 630–633; Arch. Dermat. and Syph., 1923, viii, 498–501.
68. The demonstration of unerupted Hutchinson's teeth by the roentgen ray. Jour. Am. Med. Assn., 1922, lxxx, 28–29. (With B. S. Gardner.)
69. Two hundred syphilitic patients with stomach trouble. A comparative analysis of the diagnosis of syphilis in consultant medical practice. Am. Jour. Med. Sc., 1922, clxiv, 867–884. (With P. W. Brown.)
70. Nevus pilaris with hyperplasia of nonstriated muscle. Arch. Dermat. and Syph., 1923, vii, 479–481.
71. Historia, causa y propagación de la sifilis. Bol. panam. de san., 1923, ii, 3, 39, 69.
72. The facies of heredosyphilis, with comment on its possible embryogenesis and its confusion with oxycephaly and congenital ectodermal defect. Med. Clin. N. Amer., 1923, vii, 257–273.
73. Lymphangiomatous and hemangiomatous nevus associated with enormous hypertrophy of sweat glands and localized hyperhidrosis on excitement. Arch. Dermat. and Syph., 1923, viii, 186–192.
74. Tuberculous paronychia. Report of a case with unusual features. Arch. Dermat. and Syph., 1923, viii, 44–47.
75. Cutaneous tuberculosis and tuberculids in diagnosis. Minn. Med., 1924, vii, 135–143.
76. Differential problems and treatment of nodular and ulcerative lesions of the scalp as illustrated by a case of fibrosarcoma. Surg. Clin. N. Amer., 1924, iv, 469–477.
77. Serologic and clinical results in various types of syphilis, with sulpharsphenamin administered intramuscularly. Jour. Am. Med. Assn., 1924, lxxxiii, 242–246. (With C. W. Behn.)
78. Observations on the course of 413 cases of untreated or inadequately treated syphilis. Am. Jour. Syphilis, 1924, viii, 558–568. (With H. A. DesBrisay.)
79. Certain factors in the diagnosis of syphilis unrecognized in earlier years of infection. Can. Med. Assn. Jour., 1924, xiv, 715–718. (With H. A. DesBrisay.)
80. Systemic significance and diagnostic interpretation of purpura and erythema multiforme. Med. Clin. N. Amer., 1924, viii, 879–887.
81. Diagnosis of factitial lesions. Med. Clin. N. Amer., 1924, viii, 887–891.
82. Cutaneous anxiety neurosis under guise of winter pruritus. Med. Clin. N. Amer., 1924, viii, 891–894.
83. Differential diagnosis of a lesion on the lip. Med. Clin. N. Amer., 1924, viii, 894–898.
84. Results secured by standard methods of treatment in neurosyphilis. Review of 405 cases. Jour. Am. Med. Assn., 1924, lxxxiii, 1826–1831. (With L. W. Shaffer.)
85. Primary inoculation tuberculosis of the skin with metastasis to regional lymph-nodes. Am. Jour. Med. Sc., 1925, clxix, 722–736.
86. Tryparsamid in the treatment of neurosyphilis: a study based on observation of 152 patients for eighteen months. Arch. Dermat. and Syph., 1925, xi, 579–610. (With L. F. X. Wilhelm.)
87. Clinical management and response of tabetic patient. Jour. Am. Med. Assn., 1925, lxxxv, 1271–1275. (With L. W. Shaffer.)
88. Modern clinical syphilology. Philadelphia, Saunders, 1926, 1144 pp. (With P. A. O'Leary, W. H. Goeckerman, L. W. Shaffer, and C. J. White.)

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Bibliography.—1. Multiple polyposis of the intestinal tract. Ann. Surg., 1920, lxxii, 649–664.

2. Primary carcinoma of the ureter. Jour. Urol., 1921, vi, 115–124. (With E. S. Judd.)
3. Multiple polyposis of the gastro-intestinal tract. Surg., Gynec., and Obst., 1924, xxxviii, 610–624.
4. Diagnosis and treatment of the four most common diseases of the thyroid. Colorado Med., 1924, xxi, 263–270.

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Bibliography.—1. Some observations on hyperthyroidism. Am. Jour. Surg., 1912, xxvi, 293–297.
2. Carcinoma of the stomach. Long Island Med. Jour., 1913, vii, 328.
3. Duodenal ulcer. Long Island Med. Jour., 1913, vii, 329.
4. Diffuse adenomata of thyroid (anoci-association anesthesia). Long Island Med. Jour., 1913, vii, 329.
5. Suprapubic prostatectomy. Long Island Med. Jour., 1913, vii, 331.
6. Multiple post-scarlatinal infections. Long Island Med. Jour., 1913, vii, 332.
7. Duodenal ulcer; patient. Long Island Med. Jour., 1913, vii, 333.
8. Perforated ulcers of the stomach and duodenum. Jour. Am. Med. Assn., 1916, lxvii, 330–335.
9. Surgery in cantonment, base, and general hospitals. Long Island Med. Jour., 1918, xii, 437–441.
10. Standardization of hospitals a benefit to mankind. Hosp. Prog., 1920, i, 301–302.
11. Non-tubercular kidney infections. Ann. Surg., 1922, lxxv, 478–486.
12. Cancer of the colon. Tr. Assn. Res. and Ex-Res. Phys., Mayo Clinic, 1922, iii, 35–55; Am. Jour. Med. Sc., 1923, clxv, 583–593.
13. The choice of operation in gastric and duodenal ulcer. Med. Jour. and Rec., 1924, cxix, 98–100.
14. Carcinoma of stomach in young people. Surg., Gynec., and Obst., 1924, xxxix, 283–290.
15. Intussusception in adults. Boston Med. and Surg. Jour., 1924, cxci, 1105–1110.
16. "He loved the truth and sought to know it." Tr. Res. and Ex-Res. Phys., Mayo Clinic, 1925, vi, 293–297.

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Bibliography.—1. Aneurysm of the aorta and abscess of the tracheobronchial lymph glands. Am. Jour. Roentgenol., 1921, viii, 269–271. (With R. D. Carman.)
2. Splinters of glass in the face and skull revealed by the roentgen rays. Report of two cases. Jour. Am. Med. Assn., 1921, lxxvi, 1749–1750.
3. A roentgenographic study of developmental anomalies of the spine. Jour. Radiol., 1922, iii, 357–364.
4. Oxycephaly: Steeple or tower head; turmschaedel; spitzkopf; turricephaly; acrocephaly; hypsicephaly. Jour. Radiol., 1922, iii, 465–469.
5. Radiography in the examination of the urinary tract. Jour. Radiol., 1923, iv, 221–225.
6. Unusual findings in roentgenography of the head. Minn. Med., 1923, vi, 473–478.
7. A fragment of glass in the bronchus revealed by the roentgen ray. Radiology, 1923, i, 238–239. (With P. P. Vinson.)
8. Foreign body removed from bronchus under fluoroscopic guidance. Radiology, 1924, ii, 99. (With P. P. Vinson.)
9. Roentgenography of the urinary tract during the excretion of sodium iodid. Jour. Am. Med. Assn., 1924, lxxx, 368–373. (With E. D. Osborne, A. J. Scholl, and L. G. Rowntree.)
10. Appendiceal abscess with concretions around a pin. Radiology, 1924, ii, 316.
11. Shadows of calcified areas in the bony pelvis. Radiology, 1924, iii, 69–73.
12. Report of case of myxoma of the lung. Radiology, 1924, iii, 161.
13. Report of case of giant colon with impacted feces in the sigmoid. Radiology, 1924, iii, 259–260.
14. Osteochondromatosis in the hip-joint: report of a case. Radiology, 1924, iii, 285.

15. A radiologic study of soft-tissue tumors. Radiology, 1924, iii, 420–424.
16. Cellular fibroma eroding the spine. Report of a case. Radiology, 1925, iv, 58–59.
17. Miliary calcification in the lung. Med. Clin. N. Amer., 1925, viii, 1273–1286.
18. Calcified areas in the abdominal cavity. Report of six cases. Radiology, 1925, iv, 130–133.
19. Charcot's joints. Radiology, 1925, iv, 355–363.
20. Niches of the greater curvature of the stomach: reports of two cases. Radiology, 1925, v, 248–250.
21. Multiple diverticula, with hemorrhage, in the wall of the stomach: report of a case. Radiology, 1925, v, 523–524.
22. Endothelioma of the pleura: report of a case. Radiology, 1925, v, 526–527. (With F. W. Gaarde.)
23. Esophagobronchial fistula resulting from actinomycosis: report of a case. Radiology, 1926, vi, 63–64. (With P. P. Vinson.)
24. Cholecystitis with stone producing an atypical shadow: report of a case. Radiology, 1926, vi, 161–162.
25. Polypoid tumors in the pyloric end of the stomach: reports of three cases. Radiology, 1926, vi, 520–523.

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Bibliography.—1. Sarcoma of the breast. Tr. Clin. Soc. Univ. Mich., 1916, vii, 53–57.
2. Vesicosigmoidal fistulæ. Surg., Gynec., and Obst., 1921, xxxii, 318–327.

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Bibliography.—1. Pulmonary fat embolism and its relation to traumatic shock. Brit. Med. Jour., 1918, ii, 368–370.

2. Pulmonary fat embolism. Ann. Surg., 1922, lxxvi, 581–590.

Swan, Theodore S., B.S., M.D., was born January 20, 1896 in Pittston, Pennsylvania; attended the University of Pittsburgh, later Geneva College, receiving the degree of B.S. from Geneva College, Beaver Falls, Pennsylvania, in 1916, and of M.D. from the University of Pennsylvania in 1920; was intern at the Allegheny General Hospital, Pittsburgh, for one year, and worked with the U. S. Veterans' Bureau, Philadelphia, from August to December, 1921. He entered The Mayo Foundation as a fellow in medicine January 1, 1922, and transferred to surgery in 1924; his services thus far have included pathologic anatomy six months; general diagnosis, six months; medical hospital residence, three months; proctology, nine months; roentgenology,

Theodore S. Swan

one year; orthopedic surgery, three months, and operative surgery, fifteen months. He is a member of the Allegheny County Medical Society (Pittsburgh), the Olmsted County Medical Society, the Minnesota State Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. His address is Rochester, Minnesota.

Bibliography.—1. Polyposis localized in the transverse colon. Report of a case. Radiology, 1925, iv, 55–57.
2. Primary carcinoma of the duodenum: report of fifteen cases. Ann. Surg., 1925, lxxxii, 153–163, 383–388. (With G. B. Eusterman and D. M. Berkman.)
3. Fibromyxoma of the stomach projecting into the duodenum. Radiology, 1925, iv, 430–431.
4. Report of a case of lymphosarcoma of the cecum. Radiology, 1925, v, 71–72.

Sweet, Paul W., B.A., M.D., was born February 8, 1879 in Holton, Kansas; received the degree of B.A. from Ohio Wesleyan University, Delaware, Ohio, in 1902, and of M.D. from Jefferson Medical College, Philadelphia in 1908; was intern in the Cleveland General Hospital from March 1 to September 20, 1907, and in the Methodist Hospital, Philadelphia, from 1913 to 1914, and practiced in the state of Washington for eight years. He entered The Mayo Foundation June 14, 1917, as a fellow in surgery; his services included general diagnosis, seven and one-half months; orthopedic diagnosis, three months; surgery, twelve months; roentgenology, one and one-half months; anatomy, one and one-half months (Medical School, Minneapolis); neurology, five months, and surgical pathology, six months. He left The Mayo Foundation July 1, 1920, to practice in Seattle, Washington, where he remained until January 15, 1923. Since then he has been in practice in Centralia, Washington, and is on the staff of St. Luke's Hospital there. He is a member of the Academy of Surgery (Seattle), the Lewis County Medical Society, the Washington State Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Daisey E. Pool June 26, 1906. His address is 701 H Street, Centralia, Washington.

Paul W. Sweet

Bibliography.—1. An amputation stump retractor. Surg., Gynec., and Obst., 1920, xxx, 407.
2. Observations on goiter. Northwest Med., 1921, xx, 105–110.

Synhorst, Alfred P., M.D., was born October 17, 1898 in Blackoak Township, Mahaska County, Iowa; attended Central College, Pella, Iowa, from 1916 to 1918; received the degree of M.D. in 1922 from the University of Iowa; was intern at the Harper Hospital, Detroit, Michigan, in 1922 and 1923, and at the Des Moines City Hospital from July, 1923 to April 1, 1924, when he entered The Mayo Foundation as a fellow in surgery. His services to January 1, 1926 included postoperative treatment, three months; general diagnosis, nine months; surgical pathology, six months, and urology, three months. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Associatoin, Phi Delta Theta, and Nu Sigma Nu. His address is Rochester, Minnesota.

Alfred P. Synhorst

Synhorst, John B., B.A., M.D., was born November 13, 1895 in Leighton, Iowa; attended Central College, Pella, Iowa; received the degree of B.A. in 1917 from Penn College, Oskaloosa, Iowa, and the degree of M.D. in 1921 from the University of Iowa; was intern at the State University Hospital, Iowa City, for one year, and entered The Mayo Foundation July 1, 1922 as a fellow in surgery. His services included general diagnosis, nine months; surgical pathology, nine months, and operative surgery, one year. He left The Mayo Foundation January 1, 1925 to enter practice in Des Moines, Iowa. He is a member of the Polk County Medical Society, the Iowa State Medical Society, the American Medical Association, A. F. I., Phi Delta Theta, Alpha Omega Alpha, and Nu Sigma Nu. He married Beatrice L. Spyker June 23, 1922. His address is 613–615 Bankers Trust Building, Des Moines, Iowa.

John B. Synhorst

Bibliography.—1. Pick's disease: case report. Jour. Iowa State Med. Soc., 1926, xvi, 19–20.

Szlapka, Thaddeus L., B.S., M.D., was born May 16, 1891 in Jersey City, New Jersey; received the degree of B.S. in 1911, and of M.D. in 1914, from the University of Pennsylvania, was intern at St. Agnes Hospital, Philadelphia, from July, 1914 to July, 1915, and at the University of Pennsylvania Hospital, Philadelphia, August and September, 1915. He entered The Mayo Foundation September 1, 1915 as a fellow in surgery, but transferred his major to medicine in July, 1919; his services included postoperative care, four months, and general diagnosis, three years. January 1, 1921 he was appointed associate in a section on medicine, Mayo Clinic. From December 13, 1917 to July 13, 1919 he served as Captain in the Medical Corps. He left the Clinic January 1, 1923 and is practicing in Milwaukee. He is a member of the State Medical Society of Wisconsin, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Lola E. Dodds September 28, 1920. His address is Wells Building, 120 Wisconsin Street, Milwaukee, Wisconsin.

Thaddeus L. Szlapka

Bibliography.—1. The estimation of urobilin and urobilinogen in the duodenal contents. Am. Jour. Med. Sc., 1918, clv, 562–579. (With A. H. Sanford and H. Z. Giffin.)

2. Two patients with pernicious anemia alive more than three years after splenectomy. Med. Clin. N. Amer., 1919, iii, 773–782.

3. The treatment of pernicious anemia by splenectomy. Jour. Am. Med. Assn., 1921, lxxvi, 290–295. (With H. Z. Giffin.)

4. General aspects of the early diagnosis of pernicious anemia. Ann. Clin. Med., 1922, i, 157–158.

5. The diagnosis of very early pernicious anemia. Wisconsin Med. Jour., 1924, xxiii, 298–302.

Taylor, Richard V., Jr., B.A., M.D., was born March 7, 1886 in Mobile, Alabama; received the degree of B.A. in 1908, and of M.D. in 1910 from the University of Virginia; was intern in the University of Virginia Hospital, Charlottesville, during the summer of 1910, and in the New York Post-Graduate Hospital from 1910 to 1912; and for eight and one-half years he was surgeon in the Yangchow Baptist Hospital, Yangchow, China. During the war he was Captain in the American Red Cross in Siberia. He entered The Mayo Foundation in September, 1921 as a fellow in surgery; his services included pathologic anatomy, seven months; general diagnosis, six months; neurologic surgery, three months, and operative surgery, eighteen months, one year of which time he was first assistant in surgery. He left The Mayo Foundation July 1, 1924, and returned to the Yangchow Baptist Hospital. He married Anne R. Sampson June 11, 1912. His address is Baptist Hospital, Yangchow, China.

Richard V. Taylor, Jr.

Bibliography.—1. Operating room team work. China Med. Jour., 1925, xxxix, 944–949.

Taylor, Rood, M.D., Ph.D. in Pediatrics, was born May 12, 1885 in Columbia, South Dakota; attended Alma College, Michigan, from 1904 to 1906, received the degree of M.D. from the University of Michigan in 1910, and of Ph.D. in Pediatrics from the University of Minnesota in 1917; was intern in the Northern Pacific Hospital, Brainerd, Minnesota, from 1910 to 1911; practiced in Duluth from 1911 to 1914, and was a teaching fellow in pediatrics, University of Minnesota, from 1914 to 1917. He was appointed associate in the Section on Pediatrics, Mayo Clinic, July 1, 1917. He resigned in February, 1919, to become a member of the staff of the Children's Clinic, Minneapolis, and assistant professor of pediatrics, University of Minnesota. He is a member of the American Pediatric Society, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Phi Beta Pi, and Sigma Xi. He married Zaidee Markham June 26, 1912. His address is Abbott Hospital, Minneapolis, Minnesota.

Bibliography.—1. Hunger in the infant. Am. Jour. Dis. Child., 1917, xiv, 233–257.
2. Hunger and appetite secretion of gastric juice in infants' stomachs. Am. Jour. Dis. Child., 1917, xiv, 258–266.
3. The artificial feeding of infants. Journal-Lancet, 1918, xxxviii, 433–435.
4. Treatment of prematurity. Jour. Am. Med. Assn., 1918, lxxi, 1123–1127.
5. The measurements of 250 full-term, newborn infants. Am. Jour. Dis. Child., 1919, xvii, 353–362.

6. The relationship between tonsillar infection and recurrent vomiting. Minn. Med., 1919, ii, 61–66.
7. The fate of subcutaneously injected red blood cells. Am. Jour. Dis. Child., 1920, xx, 337–340; Tr. Am. Pediat. Soc., 1920, xxxii, 274–278.
8. Chronic interstitial nephritis in children. Minn. Med., 1920, iii, 481–485.
9. Celiac disease. Am. Jour. Dis. Child., 1923, xxv, 46–54.
10. Chronic diarrheas in childhood. Journal-Lancet, 1923, xliii, 91–93.
11. Chronic intestinal indigestion in early childhood. Minn. Med., 1923, vi, 183–184.
12. Some points in management of newborn infants. Jour. Iowa Med. Soc., 1924, xiv, 218–220.
13. Bile pigments and bile salts in duodenal juice of children. Am. Jour. Dis. Child., 1924, xxvii, 25–27. (With M. R. Ziegler and A. E. Gourdeau.)

Thomas, Gilbert J., M.D., F.A.C.S., was born September 16, 1884 in Colby, Wisconsin; received the degree of M.D. from Northwestern University, Chicago, in 1908; and was intern in Mercy Hospital, Chicago, from June, 1908 to June, 1909. He came to the Mayo Clinic July 1, 1909 as assistant in the Section on Postoperative Treatment; after one year on this service he was appointed associate in the Section on Urology. He resigned in June, 1916, to practice urology in Minneapolis. During the war he was Major in the Medical Corps, A. E. F., serving as Assistant Division Surgeon, 34th Division, and as Sanitary Officer, Base Hospital 26, Allerey, Soane-et-Loire, France. He is a member of the Hennepin County Medical Society, the Southern Minnesota Medical Association, the Minnesota State Medical Association, the Minnesota Dermatological Society, the Chicago Urological Society, the American Urological Association, the American College of Surgeons, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, of which he is Secretary General. He married Ethel E. Fuller March 6, 1911. His address is 1009 Nicollet Avenue, Minneapolis.

Gilbert J. Thomas

Bibliography.—1. Cystoscopic and ureteral diagnosis, with special reference to tuberculosis and calculus. Jour. Minn. Med. Assn., 1911, xxxi, 517–519.
2. Report of a case of pelvic kidney; diagnosis before operation. Ann. Surg., 1913, lviii, 809–811.
3. An apparatus for the injection and lavage of the pelves of the kidneys and ureters. Jour. Am. Med. Assn., 1913, lx, 184.
4. Anuria for five and one-half days in a patient on whom left nephrectomy had been done. Journal-Lancet, 1915, xxxv, 667.
5. The practical value of chemical tests of renal function in surgical conditions of the urinary tract. Jour. Am. Med. Assn., 1915, lxiv, 104–109. (With W. F. Braasch.)

6. Some observations in the diagnosis of syphilis. Journal-Lancet, 1916, xxxvi, 198–202.
7. Spontaneous or non-traumatic rupture of the left kidney. Journal-Lancet, 1916, xxxvii, 84–86.
8. Diverticula of the urinary bladder. Surg., Gynec., and Obst., 1916, xxiii, 378–384; Tr. Am. Urol. Assn., 1916, x, 1–14.
9. Clinical review of 240 cases of nonsurgical infection of the kidneys and ureters. Urol. and Cutan. Rev., 1916, xx, 127–130.
10. Papillary adenocarcinoma of the kidney in a girl of twenty-three years, with a peculiar pelvic filling defect. Urol. and Cutan. Rev., 1921, xxv, 418; Journal-Lancet, 1921, xli, 522.
11. Bilateral cystocele or cystic dilatation of the lower end of the ureters; a successful method of treatment. Minn. Med., 1922, ix, 475–478. (With D. H. S. Mellen.)
12. Papilloma of the bladder and posterior urethra. Urol. and Cutan. Rev., 1922, xxvi, 135–136.
13. Urinary lithiasis in children. Minn. Med., 1922, v, 147–152; Jour. Urol., 1922, viii, 171–183.
14. Diagnosis and treatment of ureteral calculi. Minn. Med., 1923, vi, 226–232.
15. Some things the general practitioner should know about urology. Journal-Lancet, 1923, xliii, 322–328.
16. Papillary carcinoma of the renal pelvis in a child of three and a half years. Surg. Clin. N. Amer., 1923, iii, 1255–1261.
17. Urethrocele. Surg. Clin. N. Amer., 1923, iii, 1263–1265.
18. Hydronephrosis of the right kidney of unknown origin. Surg. Clin. N. Amer., 1923, iii, 1267–1271.
19. Granuloma of the urinary bladder. Surg. Clin. N. Amer., iii, 1273–1279.
20. Emergency method of controlling hemorrhage from prostatic urethra following punch operation. Surg. Clin. N. Amer., 1923, iii, 1281–1283.
21. Duplication of left renal pelvis and ureter; bilateral pyelonephrosis with atrophy. Jour. Urol., 1924, xi, 105–110.
22. Tumors of the kidney, pelvis, and ureter. Jour. Urol., 1924, xi, 205–238. (With E. A. Regnier.)
23. Preoperative treatment of hypertrophy of the prostate. Minn. Med., 1925, viii, 171–180.
24. Bilateral renal lithiasis. Jour. Urol., 1925, xiv, 501–507.
25. Permanent ureteral drainage. Tr. Res. and Ex-Res. Phys. Mayo Clinic, 1925, vi, 261–272.
26. The diagnosis of renal tuberculosis. Minn. Med., 1926, ix, 22–28.

Thompson, J. William, Jr., M.D., was born November 30, 1898 in Cambridge, Ohio; received the degree of M.D. in 1923 from Washington University Medical School, St. Louis, and was intern at St. Luke's Hospital in St. Louis from July, 1923 to July 1, 1924, when he entered The Mayo Foundation as a fellow in surgery. His services to January 1, 1926 included radium and roentgen-ray therapy, three months; general diagnosis, six months; laryngology, oral and plastic, three months, and operative surgery, six months. He was appointed first assistant in one of the sections in the Division of Surgery October 1, 1925. He is a member of Olmsted County Medical Society, the Minnesota State Medical Association, Tau Pi Epsilon, Alpha Omega Alpha, and Sigma Xi. His address is Rochester, Minnesota.

J. William Thompson, Jr.

Bibliography.—1. Hereditary and racial variations in the musculus palmaris longus. Am. Jour. Phys. Anthropology, 1921, iv, 205–218. (With J. M. Batts and C. H. Danforth.)

Thompson, Luther, B.A., M.A., Ph.D., was born January 3, 1890 in South Londonderry, Vermont; received the degree of B.A. in 1916 from Clark College, Worcester, Massachusetts, and the degree of M.A. in 1923, and of Ph.D. in 1925, from the University of Illinois; was instructor in bacteriology, School of Hygiene, University of Pennsylvania in 1920 and 1921, and was assistant in bacteriology at the University of Illinois for three years. He came to the Mayo Clinic July 1, 1924 as first assistant in the Section on Clinical Pathology. He served in army hospitals from May, 1918 to December, 1919. He is a member of the Society of American Bacteriologists and Sigma Xi. He married Mercy H. Bowen July 2, 1921. His address is Rochester, Minnesota.

Luther Thompson

Bibliography.—1. A group of hydrogen sulphid producing bacteria. Jour. Med. Res., 1921, xlii, 383–389.

2. Changes in nutrient agar due to clarifying with egg. Jour. Lab. and Clin. Med., 1922, vii, 758–760.

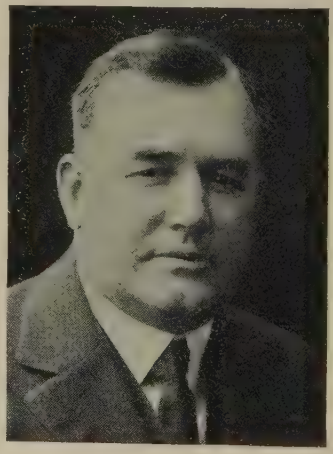
3. Toxin production by clostridium botulinum in canned foods. Jour. Inf. Dis., 1925, xxxvii, 344–352. (With F. W. Tanner.)

4. The blood-agar plate for spore-forming anaërobes. Jour. Bacteriol., 1926, xi, 305–321.

Thompson, Thomas C., M.D., F.A.C.S., was born December 26, 1886 in Vidalia, Georgia; received the degree of M.D. from the University of Georgia in 1908; was intern in the Augusta City Hospital one year; and practiced medicine in Vidalia, Georgia, from 1908 to 1918, which included two years in the Vidalia Hospital. He entered The Mayo Foundation August 1, 1918 as a special student in surgery; his services included general diagnosis, three months, and surgery, nine months. He returned to Vidalia August 1, 1919, where he is now general surgeon in the Vidalia Hospital. He is a member of the Toombs County Medical Society, the Medical Association of Georgia, the Southern States Medical Association, the American Medical Association, the American College of Surgeons, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Sadie Young June 30, 1908. His address is Vidalia Hospital, Vidalia, Georgia.

Thomas C. Thompson

Toland, Clarence G., M.D., F.A.C.S., was born August 17, 1875 in Valley Mills, Texas; received the degree of M.D. from the University Medical College of Kansas City, Missouri, in 1901; was intern in the Riverside County Hospital, California, six months; practiced general medicine in Pomona, California, nine years, and was on the surgical staff of the Sisters' Hospital, Los Angeles, eighteen months. He came to the Mayo Clinic May 1, 1910, and was extern at St. Mary's Hospital two years. He left the Mayo Clinic in May, 1912, and practiced in Pomona and Los Angeles until 1914, when he returned to the Clinic as an assistant in one of the sections on medicine. He was later appointed head of a section on medicine. He left the Clinic June 1, 1916 to practice surgery in Los Angeles. He is connected with the surgical staff of St. Vincent's and the Good Samaritan Hospitals, Los Angeles. During the war he was Major in the Medical Corps, U. S. A., serving as chief of the surgical staff in the Letterman General Hospital, San Francisco, be-



Clarence G. Toland

tween July and November, 1918. He is a member of the California Medical Association, the Western Surgical Association, the American College of Surgeons, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Nina Rowland November 30, 1920. His address is 1028 Pacific Mutual Building, Los Angeles, California.

Bibliography.—1. Carcinoma of the thyroid. Surg., Gynec., and Obst., 1925, xl, 579–581.
2. Acute pancreatitis. Calif. and West. Med., 1925, xxiii, 870–873.

Tucker, William J., B. A., M.A., M.D., M.S. in Surgery, was born July 20, 1891 in St. Louis; received the degree of B.A. in 1910, of M.A. in 1912, and of M.D. in 1914, from St. Louis University, and of M.S. in Surgery in 1919 from the University of Minnesota, and was intern in the St. Louis City Hospital from 1914 to 1916. He entered The Mayo Foundation July 10, 1916 as a fellow in surgery; his services included surgery, four years, and general diagnosis, one year. From May 1, 1917 to August 1, 1919 he was first assistant in one of the sections in the Division of Surgery. July 1, 1920 he was again appointed first assistant. He resigned March 1, 1921, to become a member of the surgical staff of St. Joseph's Hospital, Ashland, Wisconsin. He married Edith Shea in 1922. His address is St. Joseph's Hospital, Ashland, Wisconsin.

William J. Tucker

Bibliography.—1. Infections of the kidney. Wisconsin Med. Jour., 1921, xx, 277–285.
2. Dilatation of the duodenum. Wisconsin Med. Jour., 1922, xxi, 136–137.
3. Pulmonary embolus. Wisconsin Med. Jour., 1925, xxiii, 611–613.

Underhill, Marshall S., B.S., M.D., was born June 30, 1893 in Stillwater, Minnesota; received the degree of B.S. in 1919, and of M.D. in 1921 from Northwestern University, Chicago; was intern in the Evanston Hospital in 1920 and 1921, and practiced in Evanston, Illinois, for two years, entering The Mayo Foundation October 1, 1923 as a fellow in surgery. His services included general diagnosis, one year; surgical pathology, six months, and operative surgery, three months. He left The Mayo Foundation August 1, 1925, and is now practicing surgery in Evanston, Illinois. He is a member of the Illinois State Medical Society. He married Clara E. Vernay June 23, 1917. His address is 1604 Chicago Avenue, Evanston, Illinois.

Marshall S. Underhill

Unsworth, Alexander D., M.B., was born August 24, 1881 in Hamilton, Ontario; received the degree of M.B. from Toronto University in 1904; was intern in the Hamilton General Hospital, Ontario, from July 1, 1904 to March 1, 1906; from 1908 to 1909 he practiced in Hamilton, Ontario, and during the war served on the Ontario Examining Board with the rank of Lieutenant. He entered The Mayo Foundation January 1, 1919 as a fellow in medicine; his services included general diagnosis, eight months, and neurology, four months. He left The Mayo Foundation January 1, 1920 to establish a practice in Hamilton, Ontario. He is a member of the Hamilton Medical Society, the Ontario Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Kathleen I. Henry in 1912. His address is 14 Duke Street, Hamilton, Ontario.

Alexander D. Unsworth

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1906, when he left the Clinic. He is now practicing surgery in Detroit, and is assistant professor of clinical surgery at the Detroit College of Medicine and Surgery. He is a member of the American Medical Association and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. His address is 987 Jefferson Avenue, East, Detroit, Michigan.

Bibliography.—1. Surgical treatment of angina pectoris. Jour. Michigan Med. Soc., 1925, xxiv, 108–109.

Verbrugge, Jean, M.D., was born December 16, 1896 in Sofia, Bulgaria; received the degree of M.D. in 1921 from the University of Brussels, Belgium; was intern at the Hospital Saint Pierre and the Hospital Saint Jean, Brussels, in 1920 and 1921, and acting house surgeon in the latter hospital and assistant in Professor DePage's service in 1922. He entered The Mayo Foundation October 1, 1922 as a C.R.B. fellow. His services included surgical pathology, three months; general diagnosis, nine months; pathologic anatomy, three months, and operative surgery, six months. He left The Mayo Foundation August 1, 1924, and after visiting clinics in the Orient and Europe he entered the practice of surgery in Antwerp, Belgium. His address is 81 Chaussée de Malines, Antwerp, Belgium.

Jean Verbrugge

Bibliography.—1. A review of urologic surgery. Arch. Surg., 1925, x, 774–812; xi, 152–170, 304–328. (With A. J. Scholl, E. S. Judd, L. D. Keyser, and G. S. Foulds.)
2. Gastrojejunocolic fistulas. Collected Papers Mayo Clinic and Mayo Foundation, 1924, xvi, 104–118; Arch. Surg., 1925, xi, 790–808.
3. La rupture des ligaments croisée; leur importance dans la pathologie du genou. Arch. franco-belges de Chir., 1926. (In press.)
4. Sulla coxa plana. Chir. d. org. di movimento, 1926. (In press.)

Vinson, Porter P., B.S., M.A., M.D., F.A.C.P., D.Sc., was born January 24, 1890 in Davidson, North Carolina; received the degree of B.S. in 1909, of M.A. in 1910, and of D.Sc. in 1925 from Davidson College, Davidson, North Carolina, and of M.D. from the University of Maryland in 1914; was intern in the Trudeau Sanitarium, New York, eighteen months, from 1914 to 1916, and in the Montreal General Hospital six months during 1916. He entered The Mayo Foundation September 1, 1916, as a fellow in medicine; his services have included postoperative care, four months, and general diagnosis, nine years. June 1, 1919 he was appointed first assistant in a section on medicine, Mayo Clinic, and April 1, 1921 was made associate; he has charge of the work in Peroral Endoscopy, Mayo Clinic, and is also an instructor in medicine, The Mayo Foundation, Graduate School, University of Minnesota. During the War he served as First Lieutenant, Medical Corps, A. E. F., stationed at Base Hospital 102, Italy. He is a member of Olmsted County Medical Society, the Southern Minnesota Medical Association, the Minnesota State Medical Association, the American Congress on Internal Medicine, the American Congress of Physicians, the American Medical Association, the American Society of Thoracic Surgeons, the American Bronchoscopic Society, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Beta Theta Pi, Nu Sigma Nu, Phi Beta Kappa, and Sigma Xi. He married Lenore B. Dunlap May 14, 1919. His address is Rochester, Minnesota.

Porter P. Vinson

Bibliography.—1. A case of cardiospasm with dilatation and angulation of the esophagus. Med. Clin. N. Amer., 1919, iii, 623–627.
2. A method of applying radium in cases of esophageal cancer. Surg., Gynec., and Obst., 1920, xxxi, 300–302.
3. Esophageal stricture following the vomiting of pregnancy. Surg., Gynec., and Obst., 1921, xxxiii, 412–413.
4. Cardiospasm: A report of 301 cases. Med. Clin. N. Amer., 1921, v, 355–369. (With H. S. Plummer.)
5. A pedunculated lipoma of the esophagus. Jour. Am. Med. Assn., 1922, lxxviii, 801–802.
6. Hysterical dysphagia. Minn. Med., 1922, v, 107–108.
7. Esophageal obstructions. Ann. Clin. Med., 1922, i, 138–139.
8. Foreign bodies of unusual interest removed from the air passages. Minn. Med., 1923, vi, 260–262.
9. Cardiospasm associated with esophageal diverticula. New York Med. Jour., 1923, cxvii, 540.
10. Congenital strictures of the esophagus. Jour. Am. Med. Assn., 1923, lxxx, 1754–1755
11. Foreign bodies in the esophagus and air passages. Minn. Med., 1924, vii, 546–548.

12. The value of the *x*-ray in the diagnosis and treatment of diseases of the esophagus. Radiology, 1924, iii, 105–109.
13. The etiology of benign stricture of the esophagus. Virginia Med. Month., 1923, l, 265–266.
14. Stricture of the esophagus following typhoid fever. Med. Clin. N. Amer., 1923, vii, 57–61.
15. Stricture of the esophagus occurring during pregnancy. Am. Jour. Obst. and Gynec., 1923, vi, 346–348.
16. Carcinoma of the esophagus. Am. Jour. Med. Sc., 1923, clxvi, 402–414.
17. Errors in the diagnosis of foreign bodies in the air passages. Am. Jour. Roentgenol., 1923, x, 908–910.
18. Complete esophageal obstruction in cardiospasm. Am. Jour. Surg., 1923, xxxvii, 285.
19. A fragment of glass in the bronchus revealed by the roentgen ray. Radiology, 1923, i, 238–239. (With C. G. Sutherland.)
20. Stricture of the esophagus following scarlet fever. Laryngoscope, 1923, xxxiii, 949–951.
21. Foreign body removed from bronchus under fluoroscopic guidance. Radiology, 1924, ii, 99. (With C. G. Sutherland.)
22. Practical points in the management of pharyngo-esophageal diverticula. Colorado Med., 1924, xxi, 6–7.
23. The diagnosis and treatment of cardiospasm. Jour. Am. Med. Assn., 1924, lxxxii, 859–861.
24. Marked dilatation of the esophagus in cardiospasm. Ohio State Med. Jour., 1924, xx, 147–148.
25. Obstruction of the esophagus and cardia, and foreign body in the bronchus. Surg. Clin. N. Amer., 1924, iv, 303–318.
26. Metastasis from symptomless cancer of the esophagus. Med. Jour. and Rec., 1924, cxx, xix–xx. (With G. B. New.)
27. The management of cicatricial (benign) strictures of the esophagus. Surg., Gynec., and Obst., 1924, xxxviii, 543–546.
28. Unusual position of an open safety pin in the esophagus. Radiology, 1925, iv, 129–130.
29. Cancer of the esophagus. Med. Clin. N. Amer., 1925, viii, 1027–1036.
30. Pyloric obstruction due to swallowing a solution of concentrated lye. Med. Clin. N. Amer., 1925, viii, 1037–1040. (With H. R. Hartman.)
31. Dilation versus gastrostomy as a palliative treatment of carcinoma of the esophagus. Jour. Am. Med. Assn., 1925, lxxxiv, 658–659. (With H. J. Moersch.)
32. Severe burn of mouth from the accidental ingestion of granulated lye. Laryngoscope, 1925, xxxv, 127–128. (With H. J. Moersch.)
33. Esophageal obstructions in childhood. Arch. Pediat., 1925, xlii, 211–212.
34. Pharyngo-esophageal diverticula: diagnosis and preoperative management. Jour. Am. Med. Assn., 1925, lxxxv, 178–180.
35. Epigastric pain a symptom of esophageal obstruction. Ann. Surg., 1925, lxxxii, 212–214.
36. A case of squamous-cell epithelioma of the stomach. Jour. Lab. and Clin. Med., 1925, xi, 258–259. (With A. C. Broders.)
37. Esophagobronchial fistula resulting from actinomycosis: report of a case. Radiology, 1926, vi, 63–64. (With C. G. Sutherland.)
38. Spontaneous expulsion of a peanut kernel one year after aspiration. Arch. Otolaryngol., 1926, iii, 59.
39. Expectant treatment of foreign bodies in the stomach. Minn. Med., 1926, ix, 95–97. (With H. J. Moersch.)
40. Cardiospasm. New Orleans Med. and Surg. Jour., 1926, lxxviii, 483–490.
41. Surgical diathermy for tumors of the trachea. Laryngoscope, 1926, xxxvi, 217–220. (With H. H. Bowing.)

Von Lackum, William H., B.S., M.D., was born April 9, 1893 in Dysart, Iowa; received the degree of B.S. in 1916, and of M.D. in 1918, from the State University of Iowa; was intern in the University of Iowa Hospital, Iowa City, from 1918 to 1919, and practiced in Chicago from October, 1919 to March, 1922. He has been connected with the Mayo Clinic since April, 1922 as an associate in the Section on Urology. He is an instructor in urology, Mayo Foundation, Graduate School, University of Minnesota. He is a member of the Southern Minnesota Medical Association and the American Urological Association. He married Lena M. Parsons August 17, 1921. His address is Rochester, Minnesota.

William H. Von Lackum

Bibliography.—1. Mercurochrome-220 soluble as a valuable adjuvant to the silver compounds in the treatment of gonorrhea and its complications. Jour. Am. Med. Assn., 1923, lxxxi, 1940–1942. (With B. H. Hager.)

2. Chronic prostatitis with special reference to its focal aspects. Med. Jour. and Rec., 1925, cxxii, 23–27, 64–67. (With J. K. Holloway.)

Wagener, Henry P., B.S., M.D., M.S. in Ophthalmology, was born June 3, 1890 in Charleston, South Carolina; received the degree of B.S. from the College of Charleston, South Carolina, in 1909, of M.D. from the Medical College of the State of South Carolina in 1913, and of M.S. in Ophthalmology from the University of Minnesota in 1923; was substitute intern at the Roper Hospital, Charleston, for short periods at different times; was assistant to Dr. Edward F. Parker, Charleston, from 1913 to 1917, and assistant to Dr. F. C. Todd, Minneapolis, from May, 1917 to April, 1918. From April, 1918 to August, 1919 he served as ophthalmologist, with the rank of First Lieutenant, Medical Corps, A. E. F., and is now Major in the Medical Officers' Reserve Corps. He had three months of graduate work in otolaryngology and rhinology in New York and Chicago. He entered The Mayo Foundation January 1, 1920 as a fellow in ophthalmology; his services included three years in ophthalmology. He was

Henry P. Wagener

appointed first assistant in the Section on Ophthalmology, Mayo Clinic, April 1, 1921, and associate January 1, 1926. He is also an instructor in ophthalmology, The Mayo Foundation, Graduate School, University of Minnesota. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the Minnesota Academy of Ophthalmology and Otolaryngology, the Medical Society of South Carolina, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. His address is Rochester, Minnesota.

Bibliography.—1. The retinitis of diabetes mellitus: Preliminary report. Jour. Am. Med. Assn., 1921, lxxvi, 515–517. (With R. M. Wilder.)
2. Lipemia retinalis. Am. Jour. Ophth., 1922, v, 521–525.
3. Cases of marked hypertension, adequate renal function and neuroretinitis. Arch. Int. Med., 1924, xxxiv, 374–387. (With N. M. Keith.)
4. Retinitis and renal function in cardiovascular-renal disease. Am. Jour. Ophth., 1924, vii, 272–276.
5. Anomalous spiral looping of a retinal vein. Am. Jour. Ophth., 1924, vii, 177–179. (With U. H. Merrill.)
6. Coloboma of the iris, choroid and optic disk, with detachment of the retina. Am. Jour. Ophth., 1925, viii, 694–697. (With J. F. Gipner.)

Wahle, George H., B.A., M.D., M.S. in Surgery, was born February 7, 1894 in West Bend, Wisconsin; received the degree of B.A. from the University of Wisconsin in 1917, of M.D. from Washington University, St. Louis, in 1919, and of M.S. in Surgery from the University of Minnesota in 1925; was intern at St. Joseph's Hospital and the Marshfield Clinic, Marshfield, Wisconsin, from 1919 to 1920; practiced with Dr. E. V. Smith at Fond du Lac, Wisconsin, from 1920 to 1921, and at Minneapolis for five months the following year. He entered The Mayo Foundation January 1, 1922 as a fellow in surgery; his services included postoperative treatment, three months; general diagnosis, nine months; orthopedic diagnosis, three months; surgical pathology, six months, and operative surgery, fifteen months. He left The Mayo Foundation December 16, 1924, and is now practicing in Boise, Idaho. He is a member of the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Elizabeth Montgomery July 5, 1920. His address is 202–203 Noble Building, Boise, Idaho.

George H. Wahle

Walker, James C., M.D., was born March 22, 1890 in Minneapolis, Minnesota; attended the University of Minnesota from 1910 to 1912; received the degree of M.D. from the Medical College of Virginia, Richmond, in 1914, and was intern in the Park View Hospital, Rocky Mount, North Carolina, six months, and in the Minneapolis City Hospital one year. He entered The Mayo Foundation September 28, 1915 as a fellow in orthopedic surgery; his service included orthopedic diagnosis and surgery, thirty-seven and one-half months. He left The Mayo Foundation November 17, 1918. During the war he was Lieutenant in the Medical Corps, in orthopedic and amputation service at Fort Snelling, at Fort Des Moines, and at Fort Sheridan. For eighteen months he was with the American Red Cross abroad. He is now practicing in Dayton, Ohio. He is a member of the Montgomery County Medical Society, the Ohio State Medical Association, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Nu Sigma Nu. His address is 920 Fidelity Building, Dayton, Ohio.

James C. Walker

Waller, Riley M., A.B., M.D., was born August 25, 1896 in Buchanan County, Missouri; received the degree of A.B. in 1918 from the University of Missouri, and the degree of M.D. in 1920 from Washington University, St. Louis; was intern at the Chicago Lying-in Hospital from October, 1920 to May, 1921, and at the Barnes Hospital in St. Louis for sixteen months; practiced in Chicago for three months with Dr. Frank Smithies, and in St. Louis for one year with Dr. Willard Bartlett, and entered The Mayo Foundation July 2, 1923 as a fellow in surgical pathology. He was on leave of absence from the Foundation from July, 1924 to January, 1925, during which time he practiced in Dodge City, Kansas, and in St. Louis, Missouri. His services thus far have included pathologic anatomy, six months; surgical pathology, six months; general diagnosis, nine months, and operative surgery,

Riley M. Waller

three months. He is a member of the St. Louis County Medical Society, the Missouri State Medical Association, the American Medical Association, and Phi Beta Pi. He married Muriel M. Rummell September 14, 1919. His address is Rochester, Minnesota.

Bibliography.—1. Dilatation of the heart with reference to postoperative acute dilatation. In: Bartlett, W.: The after-treatment of surgical patients. St. Louis, C. V. Mosby Company, 1920, i, 113–117. (With W. Bartlett.)

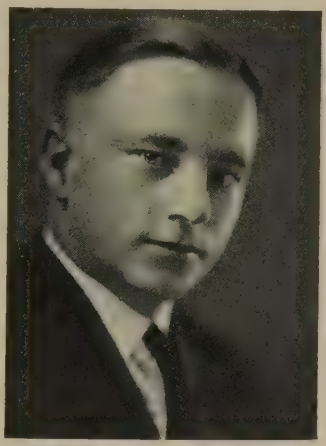
Walters, Waltman, B.S., M.D., M.S. in Surgery, was born July 29, 1895 in Cedar Rapids, Iowa; received the degree of B.S. from Dartmouth College, Hanover, New Hampshire, in 1917, of M.D. from Rush Medical College, University of Chicago, in 1919, and of M.S. in Surgery from the University of Minnesota in 1923, and was intern at St. Luke's Hospital, Chicago, from January, 1919 to June, 1920. He entered The Mayo Foundation July 1, 1920, as a fellow in medicine; his services included general diagnosis, one year and operative surgery, two years and three months. In January, 1922 he transferred his major to surgery and was appointed first assistant in one of the sections on surgery, and October 1, 1924, was made head of a section in the Division of Surgery, Mayo Clinic. He is an instructor in surgery, The Mayo Foundation, Graduate School, University of Minnesota. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Psi Upsilon, Alpha Kappa Kappa, and Sigma Xi. He married Phoebe Mayo February 5, 1921. His address is Rochester, Minnesota.

Waltman Walters

Bibliography.—1. Bence-Jones proteinuria. A report of three cases with metabolic studies. Jour. Am. Med. Assn., 1921, lxxvi, 641–645.
2. Chronic nephritis with Bence-Jones proteinuria. Effect of radium exposures on quantitative output of Bence-Jones protein. Med. Rec., 1921, c, 847–849.
3. Preoperative preparation of patients with obstructive jaundice. Surg., Gynec., and Obst., 1921, xxxiii, 651–656.
4. Tetanus complicating diabetic gangrene. Surg., Gynec., and Obst., 1922, xxxiv, 122.
5. Renal and hepatic insufficiency in obstructive jaundice. Surg., Gynec., and Obst., 1922, xxxv, 605–609. (With D. Parham.)
6. II. Preoperative preparation of patients with obstructive jaundice. End results in thirty-two cases. Minn. Med., 1923, vi, 25–28.
7. Surgical treatment of the ureter in tuberculosis of the kidney. Minn. Med., 1923, vi, 307–309.

8. Preoperative preparation of the handicapped surgical patient. Surg. Jour., 1924, xxx, 244–245; Ann. Surg., 1924, lxxix, 803–805.
9. Preoperative preparation of patients with obstructive jaundice. An experimental study of the toxicity of intravenous calcium chlorid used in the preparation of patients. Surg., Gynec., and Obst., 1924, xxxix, 200–206. (With J. P. Bowler.)
10. Broder's index of malignancy. (Editorial.) Surg., Gynec., and Obst., 1924, xxxviii, 416–417.
11. The surgical treatment of infectious arthritis. Surg. Clin. N. Amer., 1924, iv, 595–598.
12. A method of reconstructing an anomalous hepatic duct injured at operation. Ann. Surg., 1924, lxxix, 78–79.
13. Hepatic function. (Editorial.) Surg., Gynec., and Obst., 1925, xl, 133–134.
14. Surgical significance of hepatic function. Minn. Med., 1925, viii, 146–149.
15. Transplantation of ureters into rectum. End results in thirty-five cases of exstrophy of the bladder. Jour. Am. Med. Assn., 1924, lxxxii, 624–626. (With C. H. Mayo.)
16. The operative treatment of vesicovaginal fistulas. Surg. Clin. N. Amer., 1924, iv, 399–406. (With C. H. Mayo.)
17. The two-stage Mikulicz operation for cancer of the sigmoid. Surg., Gynec., and Obst., 1924, xxxix, 1–4. (With C. H. Mayo.)
18. Carcinoma of the suprarenal associated with unusual endocrine manifestations. Jour. Am. Med. Assn., 1924, lxxxii, 87–88. (With L. D. Keyser.)
19. The effect of intravenous injections of calcium chlorid on the kidney. Jour. Am. Med. Assn., 1924, lxxxiii, 1232–1236. (With J. P. Bowler.)
20. The toxicity and rate of excretion of calcium chlorid from the blood stream. Ann. Surg., 1924, lxxx, 545–550. (With J. P. Bowler.)
21. Diseases of the liver. I. A survey of tests for hepatic function. Arch. Int. Med., 1925, xxxvi, 248–272. (With C. H. Greene and A. M. Snell.)
22. The treatment of certain types of postoperative complications. Surg. Clin. N. Amer., 1925, v, 867–870.
23. Abnormal function of the liver. Jour. Am. Med. Assn., 1925, lxxxv, 883–886. (With W. J. Mayo.)
24. Diseases of the liver. III. A comparative study of certain tests of hepatic function in patients with obstructive jaundice. Arch. Int. Med., 1925, xxxvi, 418–436. (With C. S. McVicar, C. H. Greene, and L. G. Rowntree.)
25. Diseases of the liver. IV. Functional tests in cases of carcinoma of the liver and biliary tract. Arch. Int. Med., 1925, xxxvi, 542–560. (With C. H. Greene, C. S. McVicar, and L. G. Rowntree.)
26. Changes in the blood resulting from duodenal fistula. A clinical and experimental study. Jour. Am. Med. Assn., 1926, lxxxvi, 186–189. (With A. M. Kilgore and J. L. Bollman.)
27. Secondary operations on the common bile duct. Surg., Gynec., and Obst., 1926, xlii, 453–462.
28. Physiological principles in the treatment of benign hypertrophy of the prostate. Surg., Gynec., and Obst., 1926, xlii, 191–194.

Wangensteen, Owen H., B.A., B.S., M.B., M.D., was born September 21, 1898 at Lake Park, Minnesota; received the degrees of B.A. in 1919, B.S. in 1920, M.B. in 1921, and M.D. in 1922, from the University of Minnesota; was intern at the University Hospital in 1922 and 1923, and resident in medicine there the following year, and entered The Mayo Foundation January 1, 1924 as a fellow in surgery. After six months of service in general diagnosis, and six months in operative surgery, he left the Foundation to accept the position of surgical resident at the University Hospital in Minneapolis. He is a member of Alpha Sigma Phi, Alpha Omega Alpha, and Nu Sigma Nu, and a diplomate of the National Board of Medical Examiners. He married Helen Giffin January 6, 1923. His address is University Hospital, Minneapolis, Minnesota.



Owen H. Wangensteen

Webber, Isaac M., B.S., M.D., was born April 1, 1894 in South China, Maine; received the degree of B.S. in 1916, and of M.D. in 1920, from Bowdoin College, Brunswick, Maine, and was intern at the City Hospital in Worcester, Massachusetts, for two years, and at the State Infirmary in Tewksbury, Massachusetts, for one year, entering The Mayo Foundation May 1, 1923 as a fellow in surgery. His services to January 1, 1926 included surgical pathology, five months; general diagnosis, one year; orthopedic diagnosis, three months; regional anesthesia, three months; orthopedic surgery, six months, and operative surgery, three months. He was appointed first assistant in the Section on Orthopedic Surgery, October 1, 1925. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the Massachusetts Medical Society, the American Medical Association, Chi Psi, and Phi Chi. His address is Rochester, Minnesota.

Isaac M. Webber

Weir, James F., B.A., M.D., M.S. in Medicine, was born March 14, 1893 in Byron, Ontario; received the degree of B.A. in 1915, of M.D. in 1918, from Western University, London, Ontario, and of M.S. in Medicine in 1923 from the University of Minnesota; served as Lieutenant and later as Captain in the Canadian Army Medical Corps, assigned to the Examining Board from May to September, 1918; was stationed at Granville, England, in the Canadian Special Hospital from October, 1918 to June, 1919, and served in Canada as hospital registrar from July to October, 1919. He was intern at the University Hospital, Minneapolis, eight months from 1919 to 1920. He entered The Mayo Foundation July 1, 1920, as a fellow in medicine; his services included general diagnosis, four years; and pathologic anatomy, six months; and biologic chemistry, six months. He was appointed first assistant in one of the sections on medicine April 1, 1922, and associate, April 1, 1925. He is also an instructor in medicine, The Mayo Foundation, Graduate School, University of Minnesota. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the American Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Sigma Xi. He married Edna E. Enke June 2, 1921. His address is Rochester, Minnesota.

James F. Weir

Bibliography.—1. Studies in diabetes insipidus, water balance, and water intoxication. Study I. Arch. Int. Med., 1922, xxix, 306–330. (With E. E. Larson and L. G. Rowntree.)

2. Observations on the influence of pituitary extract on the metabolism in diabetes insipidus. Arch. Int. Med., 1923, xxxii, 617–634.

3. The thyroxin and tryptophan content of the diseased thryoid gland. Am. Jour. Med. Sc., 1925, clxix, 860–865.

Weld, Edward H., B.A., M.D., M.S. in Surgery, was born March 5, 1881 in Stillman Valley, Illinois; received the degree of B.A. in 1905, of M.D. in 1907, from the University of Michigan, and of M.S. in Surgery from the University of Minnesota in 1919; and practiced general medicine at Rockford, Illinois, from 1907 to 1916. He entered The Mayo Foundation February 1, 1916 as a fellow in surgery; his services included postoperative treatment, two months; surgery, thirteen months; general diagnosis, nine months; roentgenology, three months; urology, three months; experimental surgery and neurology, eight months. He left The Mayo Foundation June 1, 1919, to become surgeon in the Rockford Clinic, Rockford, Illinois. He is a member of the Winnebago County Medical Society, the Illinois State Medical Association, the American Urological Association, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Mary E. Salter September 10, 1910. His address is 603 West State Street, Rockford, Illinois.

Edward H. Weld

Bibliography.—1. The use of sodium bromid in roentgenography. Jour. Am. Med. Assn., 1918, lxxi, 1111–1114.

2. Toxicity of pyelographic mediums. Jour. Urol., 1919, iii, 415–426.

3. Renal absorption with particular reference to pyelographic mediums. Med. Clin. N. Amer., 1919, iii, 713–731.

4. The relation of surgery to group practice. Illinois State Med. Jour., 1921, xli, 273–279.

5. Relation of surgery to group practice. Illinois Med. Jour., 1922, xli, 273–279.

Weyrens, Joseph P., Ph.G., B.S., M.D., M.S. in Surgery, was born February 18, 1877 in St. Nicholas, Minnesota; received the degree of Ph.G. in 1901 from Northern Indiana School of Pharmacy, of B.S. in 1905, of M.D. in 1909, and of M.S. in Surgery in 1920, from the University of Minnesota; was intern at St. Paul City and County Hospital from June, 1907 to June, 1908; practiced at Dickinson, North Dakota, from June, 1908 to January, 1910, and at Taylor, North Dakota, from January, 1910 to May, 1917. He entered The Mayo Foundation May 1, 1917 as a fellow in surgery; his services included general diagnosis, eight months; orthopedic diagnosis, three months; roentgenology, three months; surgical pathology, six months;

Joseph P. Weyrens

surgery, twelve months; neurology, three months, and urology, three months. He left The Mayo Foundation June 20, 1920 to practice in Alliance, Nebraska, and is associated with the Slagle-Weyrens Clinic there. He is a member of the Boxbutte County Medical Society, the Nebraska State Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Bertha T. Pallansch May 26, 1909. His address is 323½ Boxbutte Avenue, Alliance, Nebraska.

Bibliography.—1. Pelvic tumors in children. Papers from the Mayo Foundation and the Medical School of the University of Minnesota. Philadelphia, Saunders, 1915–1920, i, 518.

Whelan, Mary, B.A., M.A., was born July 5, 1900 in Sanborn, Minnesota; received the degree of B.A. in 1922 from the College of St. Teresa, Winona, Minnesota, and of M.A. in 1925 from the University of Minnesota, and entered The Mayo Foundation October 1, 1922 as a fellow in physiological chemistry. Her services included medical chemistry, fifteen months; clinical bacteriology, three months, and three months each of physiology and physiological chemistry at the University of Minnesota. She left The Mayo Foundation October 1, 1924, and has since been working in the medical research laboratories of the Mayo Clinic. Her address is Rochester, Minnesota.

Mary Whelan

Bibliography.—1. Treatment of nephritis and edema with calcium. Jour. Am. Med. Assn., 1924, lxxxiii, 666–670; Dietary Administration and Therapy, 1924, ii, 554–562. (With N. M. Keith and C. W. Barrier.)

2. The effect of intravenous injection of inorganic chlorids on the composition of blood and urine. Jour. Biol. Chem., 1925, lxiii, 585–620.

3. The effect of novasurol on the composition of blood and urine. Abstract. Am. Jour. Physiol., 1925, lxxii, 195–196. (With N. M. Keith.)

4. The diuretic action of ammonium chlorid and novasurol in cases of nephritis with edema. Jour. Am. Med. Assn., 1925, lxxxv, 799–806. (With N. M. Keith and C. W. Barrier.)

5. The therapeutic use of diets low in water and mineral content. Arch. Int. Med., 1926, xxxvii, 550–558. (With N. M. Keith and Florence H. Smith.)

White, Paul A., B.S., Ph.B., M.D., M.S. in Surgery, F.A.C.S., was born June 1, 1884 in Red Oak, Iowa; received the degree of B.S. from Simpson College, Indianola, Iowa, in 1908, of Ph.B. from the University of Chicago in 1908, of M.D. from George Washington University, Washington, D. C., in 1916, and of M.S. in Surgery from the University of Minnesota in 1920; attended Rush Medical College, University of Chicago, during the summers from 1911 to 1915, and was intern at the National Homeopathic Hospital, Washington, D. C., from June, 1916 to June, 1917. He entered The Mayo Foundation July 17, 1917 as a fellow in surgery; his services included general diagnosis, nine months; orthopedic diagnosis, three months; operative surgery, fifteen months; urology, one month, and laryngology, oral and plastic, ten months. He left The Mayo Foundation September 25, 1920, and practiced in Aberdeen, South Dakota, from October, 1920 to May, 1921, when he moved to Davenport, Iowa. He is a member of the Scott County Medical Society, the Iowa State Medical Association, the Tri-State Medical Association (Iowa, Illinois, and Wisconsin), the Iowa and Illinois Central District Medical Society, the Medical Society of Missouri Valley, the American Medical Association, the American College of Surgeons, the Radiological Society of North America, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and Alpha Kappa Kappa. He married Alma A. Robbins June 29, 1909. His address is 404 Central Office Building, Davenport, Iowa.

Paul A. White

Bibliography.—1. Determinations of gastric acidity following gastro-enterostomy. Journal-Lancet, 1920, xl, 624–630.
2. Actinomycosis: diagnosis and treatment. Illinois Med. Jour., 1922, xli, 99–101.
3. Surgery of the thyroid. Jour. Iowa State Med. Soc., 1923, xiii, 11–15.
4. Pneumonia simulating appendicitis in children. Jour. Am. Med. Assn., 1924, lxxxii, 695–696.
5. The use of radium from a surgical standpoint. Jour. Iowa State Med. Soc., 1925, xv, 202–206.
6. The diagnostic net. Jour. Iowa State Med. Soc., 1925. (In press.)
7. Sliding hernia. Tr. Assn. Res. and Ex-Res. Phys. Mayo Clinic, 1925, vi, 91–97.

Wiese, Henning F. B., M.D., M.S. in Surgery, was born June 17, 1889 in Nordfjord, Norway; attended the Gymnasium, Kristiania, Norway, from 1904 to 1907; received the degree of M.D. from the University of Kristiania in 1915, and the degree of M.S. in Surgery from the University of Minnesota in 1922; was intern at the Rikshospitalet, Kristiania, from August, 1915 to January, 1916, and was assistant to Drs. Midelfart and Mathiesen, Eau Claire, Wisconsin, from February, 1916 to January, 1918. He entered The Mayo Foundation in April, 1918 as a fellow in surgery; his services included pathologic anatomy, one month; surgical pathology five months; postoperative treatment, four months; general diagnosis, one month, and operative surgery, twenty-three months. He left The Mayo Foundation February 1, 1921; was assistant surgeon at Ullevaal Sykehuse, Kristiania, Norway, until August, 1923; was connected with the Midelfart Clinic at Eau Claire, Wisconsin, for eighteen months, and with the Siversten Clinic in Minneapolis for two years. He is now practicing surgery in Minneapolis. During the war he was First Lieutenant in the Medical Reserve Corps of the Norwegian Army. He is a member of the Hennepin County Medical Society, the Minnesota State Medical Association, the Kristiania Kirugiske Forening, den Norske Laegeforening, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Juanita Wood December 16, 1922. His address is 701 Physicians and Surgeons Building, Minneapolis, Minnesota.

Henning F. B. Wiese

Bibliography.—1. Postoperative thrombophlebitis. Papers from the Mayo Foundation and the Medical School of the University of Minnesota. Philadelphia, Saunders, 1922, ii, 409–418.

Wilder, Russell M., B.S., Ph.D., M.D., was born November 24, 1885 in Cincinnati; received the degree of B.S. in 1907, and of Ph.D. in 1912, from the University of Chicago, and of M.D. in 1912 from the Rush Medical College, University of Chicago; did research work on typhus fever with Dr. H. T. Ricketts in Mexico City in 1910; worked on the chemistry of sugars in the laboratory of Professor Neff, University of Chicago, in 1912 and 1913; was intern at the Presbyterian Hospital in 1913 and 1914; studied in Vienna eight months in 1914; was resident physician, and assistant to Dr. Frank Billings at the Presbyterian Hospital, and assistant at the Otho S. A. Sprague Institute, Chicago, from 1914 to 1917 (at the latter institution he did research work on carbohydrate metabolism under the direction of Dr. R. T. Woodyatt). He was commissioned Lieutenant in the Medical Reserve Corps, U. S. A., in 1914; ordered to active service at Fort Benjamin Harrison in June, 1917, and served in the A. E. F., in France, as Chief of the Medical Service at Evacuation Hospital 2, and later on the Second Army Headquarters Staff as Medical Gas Officer for the Second Army. He came to the Mayo Clinic October 1, 1919 as associate in one of the sections in the Division of Medicine; he is now head of a section in this division. He is professor of medicine, The Mayo Foundation, Graduate School, University of Minnesota. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the Central Interurban Clinical Club, the American Society for Clinical Investigation, the American Physiological Society, the American Medical Association, the Institute of Medicine of Chicago, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, and an associate member of the Association of American Physicians. He married Lucy E. Beeler March 17, 1911. His address is Rochester, Minnesota.

Russell M. Wilder

Bibliography.—1. The relation of typhus fever (tabardillo) to Rocky Mountain spotted fever. Arch. Int. Med., 1910, v, 361–370; Contrib. to Med Sc., 1911, 479–490. (With H. T. Ricketts.)

2. The typhus fever of Mexico (tabardillo), preliminary observations. Jour. Am. Med. Assn., 1910, liv, 463–467. (With H. T. Ricketts.)

3. The transmission of the typhus fever of Mexico (tabardillo) by means of the louse (pediculus vestimenti). Jour. Am. Med. Assn., 1910, liv, 1304–1307; Contrib. to Med. Sc., 1911, 463–472. (With H. T. Ricketts.)

4. The etiology of the typhus fever (tabardillo) of Mexico City. Jour. Am. Med. Assn., 1910, liv, 1373–1375; Contrib. to Med Sc., 1911, 473–477. (With H. T. Ricketts.)

5. Further investigations regarding the etiology of tabardillo, Mexican typhus fever. Jour. Am. Med. Assn., 1910, lv, 309–311; Contrib. to Med. Sc., 1911, 491–497. (With H. T. Ricketts.)
6. Recent studies on typhus fever. Jour. Am. Med. Assn., 1910, lv, 2158. (Editorial.)
7. The problem of transmission in typhus fever. Jour. Infect. Dis., 1911, ix, 9–101.
8. The bacteriology of typhus fever. Jour. Am. Med. Assn., 1914, lxiii, 937–939.
9. Prolonged and accurately timed intravenous injections of sugar. Jour. Am. Med. Assn., 1915, lxv, 2067–2070. (With R. T. Woodyatt and W. D. Sansum.)
10. Peritonitis following acute ovaritis of anginal origin. Jour. Am. Med. Assn., 1916, lxvi, 569–571; Tr. Chicago Path. Soc., 1915–1918, x, 46–50.
11. Continuous intravenous injections at uniform rates. Proc. Am. Soc. Biol. Chemists, 1916, p. xix. (With W. D. Sansum and R. T. Woodyatt.)
12. d-Glucose tolerance in health and disease. Arch. Int. Med., 1917, xix, 311–334. (With W. D. Sansum.)
13. Intravenous injections of b-hydroxybutyric and aceto-acetic acids. Jour. Biol. Chem., 1917, xxxi, 59–65.
14. A primer for diabetic patients. Philadelphia, Saunders, ed. 1, 1921, 76 pp. (With Mary A. Foley and Daisy Ellithorpe.)
15. The retinitis of diabetes mellitus. Preliminary report. Jour. Am. Med. Assn., 1921, lxxvi, 515–517. (With H. P. Wagener.)
16. Plasma chlorid and edema in diabetes. Collected Papers Mayo Clinic and Mayo Foundation, Philadelphia, Saunders, 1920, xii, 398–405; Am. Jour. Physiol., 1921, lv, 287–288. (With Carol Beeler.)
17. Clinical features of the war gases. Surgeon General's Medical History of the War, 1921.
18. The nursing of the patient with diabetes. The Trained Nurse and Hospital Review, 1921, lxvii, 513–514; 1922, lxviii, 22–23.
19. Types of diabetes mellitus. Med. Clin. N. Amer., 1921, v, 455–467.
20. Studies of the metabolism of diabetes. Jour. Biol. Chem., 1922, l, xxviii–xxix; Jour. Biol. Chem., 1922, li, 311–357. (With W. M. Boothby and Carol Beeler.)
21. The threshold of ketogenesis. Jour. Biol. Chem., 1922, lii, 393–401. (With M. D. Winter.)
22. Optimal food mixtures for diabetic patients. Jour. Am. Med. Assn., 1922, lxxviii, 1878–1884.
23. A clinical lecture on diabetes. Ann. Clin. Med., 1922, i, 80–88.
24. Clinical observations on insulin. Jour. Metab. Res., 1922, ii, 701–728. (With W. M. Boothby, C. J. Barborka, H. D. Kitchen, and S. F. Adams.)
25. A primer for diabetic patients. Philadelphia, Saunders, ed. 2, 1923, 119 pp. (With Mary A. Foley and Daisy Ellithorpe.)
26. How is the overworked general practitioner to use insulin? Minn. Med., 1923, vi, 524–529.
27. The treatment of the emergencies of diabetes. Minn. Med., 1924, vii, 12–14.
28. Insulin. Med. Clin. N. Amer., 1923, vii, 1–12.
29. Preliminary report on the effect of insulin on the rate of heat production and its significance in regard to the calorigenic action of adrenalin. Med. Clin. N. Amer., 1923, vii, 53–56. (With W. M. Boothby.)
30. The present status of the diabetic patient as a surgical risk. Wisconsin Med. Jour., 1924, xxii, 557–561. (With S. F. Adams.)
31. Glandular therapy. Pancreatic gland preparations. III. Application in internal medicine. Jour. Am. Med. Assn., 1924, lxxxiii, 1078–1079.
32. "Optimal" diets for diabetic patients. Dietary Administration and Therapy, 1924, ii, 540–549; Jour. Am. Med. Assn., 1924, lxxxiii, 733–737.
33. Indications for the use of insulin. Northwest Med., 1924, xxiii, 444–447.
34. The clinical assaying of insulin and the insulin requirement. Endocrinology, 1924, viii, 630–638.

35. Care of diabetic patients undergoing operation. Tr. Assn. Res. and Ex-Res. Phys. Mayo Clinic, 1924, v, 69–71.
36. The surgical risk of the diabetic patient. Surg. Clin. N. Amer., 1924, iv, 587–593. (With S. F. Adams.)
37. Teaching nurses diet therapy. Suggestions for the organization of a hospital department. Mod. Hosp., 1925, xxv, 243–247. (With Florence H. Smith.)
38. The hospital nutrition expert. Jour. Am. Dietetic Assn., 1925, i, 118–127.
39. Necropsy findings in diabetes. South. Med. Jour., 1926, xix, 241–248.
40. Surgery in the presence of diabetes. Jour. Am. Med. Assn., 1926, lxxxi, 1107–1110. (With E. S. Judd and S. F. Adams.)
41. A primer for diabetic patients. Philadelphia, Saunders, 1927, ed. 3, 134 pp.

Wildner, Franz S., M.D., was born in 1880 in Chrudin, Bohemia; received the degree of M.D. from the German University of Prague, Austria, in 1906; was assistant at the Pathological Institute, University of Prague, from 1906 to 1908, and assistant to Dr. Daberaner at the County Hospital, Komotan, Austria, from 1908 to 1911. He came to the Mayo Clinic in February, 1912 as a member of the laboratory staff, remaining until the spring of 1915. After leaving the Mayo Clinic he practiced surgery at Passaic, New Jersey; at Sound Beach, Connecticut; was on the staff of the Battle Creek Sanatorium; practiced pathology in New York City, and in New Rochelle, New York. He is a member of the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. His last address was 16 East Fifty-second Street, New York City, but his present address is unknown.

Bibliography.—1. The intercarotid paraganglion and its tumors. Surg., Gynec., and Obst., 1914, xviii, 203–213. (With D. C. Balfour.)
2. Pyelography. Internat. Abstr. Surg., 1915, xx, 117–123. (With W. F. Braasch.)

Wilhelm, Louis F. X., B.A., M.D., was born March 7, 1894 in St. Louis, Missouri; received the degree of B.A. in 1916, and of M.D. in 1920, from St. Louis University, and was intern in the Jewish Hospital, St. Louis, from June, 1920 to June, 1921. He entered The Mayo Foundation June 1, 1921 as a fellow in dermatology; his services included dermatology and syphilology, three years and three months, and serology (part time), three months. He left The Mayo Foundation October 1, 1924, and is now associated with Dr. J. A. Fordyce in New York City, and is attending physician at the Vanderbilt Clinic. He is a member of the American Medical Association and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. His address is 330 Park Avenue, New York City.

Louis F. X. Wilhelm

Bibliography.—1. Duodenal lavage in the treatment of jaundice complicating the treatment for syphilis. Arch. Dermat. and Syph., 1924, x, 499–506.
2. Tryparsamid in the treatment of neurosyphilis; a study based on observation of 152 patients for eighteen months. Arch. Dermat. and Syph., 1925, xi, 579–610. (With J. H. Stokes.)

Wilkins, James A., B.S., M.D., M.S. in Pathology, was born March 8, 1895 in Lynchburg, Virginia; received the degree of B.S. in 1918, and of M.D. in 1919, from the University of Virginia, and of M.S. in Pathology in 1923 from the University of Minnesota; served during the war as First Lieutenant in the Medical Reserve Corps; was intern in the University of Virginia Hospital, Charlottesville, in 1919, and in the Lenox Hill Hospital, New York, in 1920. He entered The Mayo Foundation July 1, 1921 as a fellow in medicine, but transferred his major to pathology December 16, 1922; his services included pathologic anatomy, eighteen months, and general diagnosis, fifteen months. He left The Mayo Foundation April 1, 1924, and is now practicing in Norfolk, Virginia. He is a member of the Medical Society of Virginia, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. His address is Medical Arts Building, Norfolk, Virginia.

James A. Wilkins

Wilkinson, H. Fielding, B.S., M.D., was born May 18, 1896 in Oswego, New York; received the degree of B.S. in 1919 from Dartmouth College, and of M.D. in 1921 from Yale University; interned at the Manhattan State Hospital in New York City from August, 1921 to February, 1922, and at the Seattle City Hospital, Seattle, Washington, for four months, and was surgeon on the Admiral-Oriental S. S. line from September, 1922 to May, 1924. He entered The Mayo Foundation July 1, 1924 as a fellow in otolaryngology; his services to January 1, 1926 included surgical pathology, three months; laryngology, oral and plastic, nine months, and otolaryngology and rhinology, six months. He is a member of the Olmsted County Medical So-

H. Fielding Wilkinson

ciety, the Minnesota State Medical Association, Ward's Island Psychiatric Society (New York City), Sigma Nu, and Nu Sigma Nu. His address is Rochester, Minnesota.

Willan, Edward H., M.D., was born January 29, 1895 in Arlington, New Jersey; received the degree of M.D. in 1916 from the New York Homeopathic College of Medicine; was intern at the Flower Hospital in New York City in 1916 and 1917; was director of laboratories at General Hospital, No. 5, Fort Ontario, New York, during the war, and at Essex City Homeopathic Hospital from January, 1919 to October, 1923, when he entered The Mayo Foundation as a fellow in pathology. His services included pathologic anatomy, nine months; experimental pathology, nine months, and surgical pathology, six months. He left The Mayo Foundation October 1, 1925, and is now practicing surgery in Newark, New Jersey, in association with Dr. Widmer E. Doremus. He is a member of the Medical Society of New Jersey and Phi Alpha Gamma. He married Mildred Schreiber June 6, 1918. His address is 32 Fulton Street, Newark, New Jersey.

Edward H. Willan

Bibliography.—1. Influenza-pneumonia epidemic. Jour. Med. Soc. New Jersey, 1919, xvi, 363.

Willey, Vernon J., M. A., M.D., was born in 1872; received the degree of M.A. in 1902, and of M.D. in 1909, from the University of Michigan; was instructor in electrotherapeutics from 1901 to 1908, and director of the roentgen-ray laboratory from 1905 to 1908, at the University of Michigan. He came to the Mayo Clinic in July, 1909 as head of the Section on Roentgenology, and resigned in July, 1911. From July, 1911 until his death, December 7, 1912, he lived in Kalamazoo, Michigan.

Williams, Percival M., Ph.G., B.S., M.D., was born September 26, 1885 in Brookings, South Dakota; received the degree of Ph.G. in 1903, and of B.S. in 1905, from South Dakota State College, Aberdeen, and of M.D. from Northwestern University, Chicago, in 1911; was intern in the Los Angeles County Hospital from 1911 to 1912, and practiced in Los Angeles the following six years. He entered The Mayo Foundation August 1, 1918 as a fellow in surgery; his services included roentgenology, one month; postoperative care, two and one-half months; orthopedic diagnosis, three months, and general diagnosis, seven months. He was in the United States Navy from October, 1918 to June, 1919. He then returned to The Mayo Foundation and remained until November 1, 1920, when he returned to Los Angeles to practice. He is a member of the Los Angeles County Medical Society, the California Medical Association, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. His address is 631 Chapman Building, Los Angeles, California.

Percival M. Williams

Williamson, Carl S., B.A., M.D., M.S. in Surgery, was born December 11, 1896 in Columbia, Missouri; received the degree of B.A. from the University of Missouri in 1918, of M.D. from the University of Pennsylvania in 1920, and of M.S. in Surgery in 1926 from the University of Minnesota. He served as intern in the Municipal Hospital, Philadelphia, from the time of his graduation until his appointment as an assistant in the Division of Experimental Surgery and Pathology, The Mayo Foundation, August 16, 1920. He was made first assistant in that section January 1, 1921. During the war he served as student instructor in the Reserve Officers' Training Corps, with the University of Missouri (Infantry) unit from 1917 to 1918, and at the University of Pennsylvania from 1918 to 1919. In July, 1923 he transferred from the staff of the Division of Experimental Surgery and Pathology to a fellow in surgery; his services included general

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diagnosis, fifteen months, and operative surgery, fifteen months. He was appointed first assistant in a section in the Division of Surgery October 1, 1925. He left the Mayo Clinic July 1, 1926 to practice Surgery in Little Rock. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Acacia, Scabbard and Blade, and Alpha Kappa Kappa. He married Eleanor Smaltz December 29, 1921. His address is 17 Urquhart Building, Little Rock, Arkansas.

Bibliography.—1. A study of the effects of radium on normal brain tissue. A preliminary report. Surg., Gynec., and Obst., 1920, xxxi, 239–242. (With R. O. Brown and J. W. Butler.)
2. A convenient electrode for experimental electrocardiographic work. Arch. Int. Med., 1922, xxix, 274–275.
3. A study of fibrinogen following removal of the liver. Abstract. Am. Jour. Physiol., 1922, lix, 487. (With F. C. Mann and F. J. Heck.)
4. The hepatic factor in chloroform and phosphorus poisoning. Abstract. Am. Jour. Physiol., 1922, lix, 487. (With F. C. Mann.)
5. Postoperative peritoneal adhesions. An experimental study. Surg., Gynec., and Obst., 1922, xxxiv, 674–676. (With F. C. Mann.)
6. Certain observations on blood sugar and the alleged glycosuria following operative procedures on the thoracic duct. Jour. Lab. and Clin. Med., 1922, viii, 19–22.
7. The permeability of the intestinal mucosa to certain types of bacteria, determined by cultures from the thoracic duct. Am. Jour. Med. Sc., 1923, clxv, 480–486. (With R. O. Brown.)
8. Studies on the physiology of the liver. V. The hepatic factor in chloroform and phosphorus poisoning. Am. Jour. Physiol., 1923, lxv, 267–276. (With F. C. Mann.)
9. Some observations on the length of survival and function of homogeneous kidney transplants. Preliminary report. Jour. Urol., 1923, x, 275–287.
10. The experimental production of peptic ulcer. Am. Jour. Physiol., 1923, lxiii, 403. (With F. C. Mann.)
11. Acute lymphatic leukemia (small celled type). Med. Clin. N. Amer., 1923, vii, 369–377.
12. Purpura hæmorrhagica. Med. Clin. N. Amer., 1923, vii, 379–386.
13. Hodgkin's disease (abdominal type). Med. Clin. N. Amer., vii, 387–396.
14. Tuberculous peritonitis. Med. Clin. N. Amer., 1924, viii, 437–451.
15. Primary carcinoma of the liver. Med. Clin. N. Amer., 1924, viii, 453–464.

Willis, B. Charles, M.D., F.A.C.S., was born October 5, 1880 in Orange County, Virginia; attended Fredericksburg College, Virginia; was a special student at Johns Hopkins University, Baltimore, in 1907, and a special student at Harvard University, Cambridge, in 1908; received the degree of M.D. from the Medical College of Virginia in 1909; and was intern at the Johnston Willis Sanatorium, Richmond, Virginia, three months in 1909. He entered the Mayo Clinic September 1, 1909 as an assistant; his services included pathology, thirteen months; general diagnosis, experimental surgery, postoperative treatment, and surgery, nine months. He left the Mayo Clinic July 1, 1911 to become a member of the surgical staff of the Oviatt Clinic, Oshkosh, Wisconsin, where he remained one year. He was surgeon at the Abingdon Hospital, Abingdon, Virginia, for three months in 1912, and assistant surgeon at the Johnston Willis Sanatorium, Richmond, Virginia, from 1912 to 1913. From 1913 to 1918 he was assistant surgeon in the Medical Reserve Corps, U. S. N., and in 1919 he was commissioned Lieutenant and stationed at the Naval Hospital, Newport, Rhode Island. He is now a member of the surgical staff of Park View Hospital, Rocky Mount, North Carolina. He is a member of the Richmond Academy of Medicine, the Nashville County Medical Society (North Carolina), the Fourth District Medical Society (North Carolina), the Medical Society of Virginia, the Medical Society of the State of North Carolina, the Tri-State Medical Association of the Carolinas and Virginia, the Seaboard Medical Society, the Southern Medical Association, the American College of Surgeons, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Louise R. Sipe January 6, 1914. His address is Rocky Mount, North Carolina.

B. Charles Willis

Bibliography.—1. Congenital union of spleen and liver. Old Dominion Jour. Med. and Surg., 1910, xi, 107.

2. Clinical experiences with the Cammidge reaction. Surg., Gynec., and Obst., 1910, xi, 156–160; Tr. Assn. Am. Phys., 1910, xxv, 192–199. (With B. F. McGrath, J. T. Pilcher, and D. C. Balfour.)

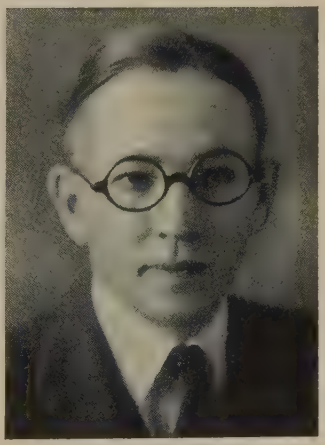
3. Pathologic relationship of ulcer and carcinoma of the alimentary canal. Jour. Am. Med. Assn., 1910, lv, 921–926. (With L. B. Wilson.)

4. Carcinoma of the breast. Old Dominion Jour. Med. and Surg., 1911, xii, 189–198. (With W. C. MacCarty.)

5. A comparative study of the histology of the so-called hypernephromata and the embryology of the nephridial and adrenal tissues. Jour. Med. Res., 1911, xxiv, 73–90. (With L. B. Wilson.)

6. The so-called mixed tumors of the salivary glands. Am. Jour. Med. Sc., 1912, clxiii, 656–670. (With L. B. Wilson.)
7. Spontaneous healing of a superficial ulcer with malignant metastasis, six years' latency. Old Dominion Jour. Med. and Surg., 1912, xv, 182–184.
8. Villous polypus of rectosigmoid juncture removed by ligation and clamp. Old Dominion Jour. Med. and Surg., 1913, xvii, 149–152.
9. Intestinal perforation in case of ambulatory typhoid; operation with recovery. Old Dominion Jour. Med. and Surg., 1914, xviii, 193–196.
10. Inflammatory pathology of the tonsil. South. Med. Jour., 1914, vii, 747–749.
11. A plea for early clinical diagnosis of cancer of rectum and rectosigmoid junction. Old Dominion Jour. Med. and Surg., 1914, xix, 87–95.
12. Traumatic rupture of spleen, operation with recovery. Old Dominion Jour. Med. and Surg., 1914, xix, 201–205.
13. Alveolar carcinoma of the thyroid: with report of a case. Virginia Med. Semimonth., 1914–1915, xix, 216–218.
14. A plea for the reduction of the death rate from cancer of the breast. Old Dominion Jour. Med. and Surg., 1915, xxi, 103–105.
15. The importance of the faucial tonsil as a portal of entry in tuberculous cervical adenitis (twenty-nine cases). South. Med. Jour., 1915, viii, 1069–1077.
16. Some dangers in passing ureteral catheter to the kidney. U. S. Naval Med. Bull., 1915, ix, 577–579.
17. Acute purpura hæmorrhagica following salvarsan treatment for syphilis. Tr. Res. and Ex-Res. Phys. Mayo Clinic, 1925, vi, 181–188. (With C. T. Smith.)

Willius, Fredrick A., B.S., M.D., M.S. in Medicine, F.A.C.P., was born November 24, 1888 in St. Paul, Minnesota; received the degree of B.S. in 1912, of M.D. in 1914, and of M.S. in Medicine in 1920, from the University of Minnesota, and was intern in the University Hospital, Minneapolis, from 1914 to 1915. He came to the Mayo Clinic July 1, 1915 as an assistant in general diagnosis and electrocardiography; was appointed first assistant on this service July 1, 1916, associate January 1, 1920, and is now head of the Section on Cardiology. He is assistant professor of medicine, The Mayo Foundation, Graduate School, University of Minnesota. He is a member of the Olmsted County Medical Society, the Minnesota State Medical Association, the Southern Minnesota Medical Association, the American Medical Association, the American College of Physicians, the American Congress of Internal Medicine, the American Heart Association, the Minnesota Heart Association (President, 1925), the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Phi Rho Sigma, and Sigma Xi. He married Stella M. Popple September 26, 1917. His address is Rochester, Minnesota.



Fredrick A. Willius

Bibliography.—1. Chronic heart-block. Am. Jour. Med. Sc., 1917, cliv, 585–592. (With J. M. Blackford.)
2. Operative risk in cardiac disease. Jour. Am. Med. Assn., 1917, lxix, 2011–2014. (With J. M. Blackford and S. F. Haines.)
3. Auricular flutter. Arch. Int. Med., 1918, xxi, 147–165. (With J. M. Blackford.)
4. Paroxysimal tachycardia of ventricular origin. Boston Med. and Surg. Jour., 1918, clxxviii, 40–44.
5. The operative risk in cardiac disease. Am. Jour. Surg., Q. Suppl. Anesth., 1918, xxxii, 121–124.
6. The preoperative treatment of hyperthyroidism. Med. Clin. N. Amer., 1919, iii, 619–622.
7. Myocardial disease with reference to the subendocardial myocardium. Med. Clin. N. Amer., 1919, iii, 653–659.
8. Congenital dextrocardia. Am. Jour. Med. Sc., 1919, clvii, 485–492.
9. Arborization block. Arch. Int. Med., 1919, xxiii, 431–440.
10. Observations on changes in form of the initial ventricular complex in isolated derivations of the human electrocardiogram. Arch. Int. Med., 1920, xxv, 550–564.
11. Observations on negativity of the final ventricular T wave of the electrocardiogram. Am. Jour. Med. Sc., 1920, clx, 844–865.
12. Chronic bradycardia. Arch. Int. Med., 1920, xxvi, 630–646.
13. Auricular fibrillation and life expectancy. Minn. Med., 1920, iii, 365–380.
14. Angina pectoris. An electrocardiographic study. Arch. Int. Med., 1921, xxvii, 192–223.
15. Report of a case of congenital heart disease with complete auriculoventricular dissociation presenting unusual features. Boston Med. and Surg. Jour., 1921, clxxxiv, 64–66.
16. Atypical pain with angina pectoris. Med. Clin. N. Amer., 1921, v, 371–393.
17. Clinical electrocardiography. Philadelphia, Saunders, 1922, 188 pp.
18. Electrocardiography and prognosis. I. Significant T wave negativity in isolated and combined derivations of the electrocardiogram. II. Aberration of the QRS complex in all derivations of the electrocardiogram. III. Significant T wave negativity and aberration of the QRS complex in all derivations of the electrocardiogram. Arch. Int. Med., 1922, xxx, 434–451.
19. Ventricular fibrillation in man with temporary cardiac recovery. Jour. Lab. and Clin. Med., 1923, viii, 518–522.
20. The heart in thyroid disease. Ann. Clin. Med., 1923, i, 269.
21. Life expectancy with mitral stenosis. Ann. Clin. Med., 1923, i, 326–330.
22. The behavior of the heart in exophthalmic goiter and adenomatous goiter with hyperthyroidism. Tr. Assn. Am. Phys., 1923, xxxviii, 137–145. (With W. M. Boothby and L. B. Wilson.)
23. The heart in exophthalmic goiter and adenoma with hyperthyroidism. Med. Clin. N. Amer., 1923, vii, 189–219. (With L. B. Wilson and W. N. Boothby.)
24. Changes in the mechanism of the human heart preceding and during death. Med. Jour. and Rec., 1924, cxix, xlix–liv.
25. Chronic adherent pericarditis. Jour. Indiana State Med. Assn., 1924, xvii, 101–103. (With A. R. Barnes.)
26. Angina pectoris and surgical diseases of the abdomen. Surg. Clin. N. Amer., 1924, iv, 465–468; Ann. Surg., 1924, lxxix, 524–532.
27. Syphilitic aortitis. Minn. Med., 1924, vii, 227–233. (With A. R. Barnes.)
28. Coronary sclerosis: an analysis of eighty-six necropsies. Am. Jour. Med. Sc., 1924, clxviii, 165–180. (With G. E. Brown.)
29. A clinical study of complete heart-block. Ann. Clin. Med., 1924, iii, 129–135.
30. Diseases of the myocardium. Jour. Iowa State Med. Soc. 1924, xiv, 370–374.
31. Clinical features of coronary sclerosis. Minn. Med., 1924, vii, 575–577.

32. Paroxysmal tachycardia with special reference to prognosis. Boston Med. and Surg. Jour., 1924, cxci, 666–670. (With A. R. Barnes.)
33. The administration of digitalis by rectum. Northwest Med., 1924, xxiii, 114–115.
34. Thyroid preparations in the treatment of Stokes-Adams' syndrome. Can. Med. Assn. Jour., 1924, xiv, 1072–1076.
35. Subacute bacterial endocarditis. Southwestern Med., 1924, viii, 203–205.
36. Life expectancy with aortic regurgitation. Med. Jour. and Rec., 1924, cxx, 417–421. (With Julia Fitzpatrick.)
37. Acute coronary obstruction. Med. Clin. N. Amer., 1925, viii, 1181–1187.
38. Paroxysmal tachycardia with multiple foci of stimulus production. Ann. Clin. Med., 1925, iii, 537–543.
39. The progress of cardiology during 1924: a review of the works of clinicians and investigators in the United States. Minn. Med., 1925, viii, 165–170, 230–236, 293–297.
40. The heart in prostatic hypertrophy. Jour. Urol., 1925, xiii, 337–342.
41. The basal metabolic rate in cases of primary cardiac disease. Med. Clin. N. Amer., 1925, viii, 1171–1180. (With W. M. Boothby.)
42. Myocardial infarction: an electrocardiographic study. A report of nine cases from the Mayo Clinic, and a review of twenty-four published cases. Jour. Lab. and Clin. Med., 1925, x, 427–445. (With A. R. Barnes.)
43. Prognosis in heart disease. Illinois Med. Jour., 1925, xlviii, 55–61.
44. Intermittent ventricular fibrillation with complete recovery: report of a case. Boston Med. and Surg. Jour., 1925, cxciii, 473–475. (With S. F. Haines.)
45. The status of the heart in myxedema. Am. Heart Jour., 1925, i, 67–72. (With S. F. Haines.)
46. Infarction of the myocardium. A report of two cases with detailed electrocardiographic observations. Atlantic Med. Jour., 1925, xxix, 9–13.
47. The relationship of chronic infection of the gallbladder to disease of the cardiovascular system. Jour. Iowa State Med. Soc., 1925, xv, 589–592. (With Julia M. Fitzpatrick.)
48. A plan for the organization of preventive cardiology in Minnesota. Collected Papers Mayo Clinic and Mayo Foudation, 1925, xvii, 1020–1024.
49. The mode of death in various types of heart disease. Am. Jour. Med. Sc., 1926, clxxi, 480–485.
50. Clinical features of cases exhibiting electrocardiograms conforming to those of experimental complete bundle-branch block. Am. Heart Jour., 1926, i, 576–593.

Willson, Hugh S., M.D., F.A.C.P., was born October 12, 1877 in Plainview, Minnesota; attended the University of North Dakota from 1895 to 1897; received the degree of M.D. from the University of Minnesota in 1904; was intern in the Minneapolis General Hospital from February, 1904 to August, 1905, and practiced at Crystal, North Dakota, from 1905 to 1912. He entered the Mayo Clinic November 1, 1912; his services included surgery, seven months, and gastro-enterology, eight months. He left the Mayo Clinic February 1, 1914 to establish a practice in gastro-enterology at Minneapolis. From November, 1917 to July, 1918 he was gastro-enterologist at the Base Hospital, Camp Kearney, California; from July to September, 1918 he was chief of medical service, Base Hospital 70, in France; and from September, 1918 to May, 1919 he was commanding officer at the same hospital. He rose from the rank of Captain to Major, and finally to Lieutenant-Colonel. He is a member of the Hennepin County Medical Society, the Southern Minnesota Medical Association, the Minnesota State Medical Association, the Minnesota Pathological Society, the American College of Physicians, the American Medical Association, and the Association of Resident and Ex-Resident Physicians of the Mayo Clinic. He married Mary Richmond August 28, 1907. His address is 323 La Salle Building, Minneapolis, Minnesota.

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Bibliography.—1. A case of thoracic aneurysm without physical findings. Journal-Lancet, 1914, xxxiv, 306.

2. Routine technic of the test-meal and bismuth *x*-ray work. Journal-Lancet, 1914, xxxiv, 511–516.

3. Practical value of the roentgen ray in gastro-intestinal diagnosis. Journal-Lancet, 1917, xxxvii, 428–430.

4. Some observations on 100 cases of carcinoma of the stomach. Journal-Lancet, 1920, xl, 185–187.

5. Important points in differential diagnosis of gastric ulcer and carcinoma. Minn. Med., 1922, v, 162–166.

6. Treatment of duodenal ulcer. Minn. Med., 1923, vi, 6–9.

7. Gastro-intestinal symptoms. Journal-Lancet, 1293, xliii, 512–519.

8. Chronic gallbladder disease in the young adult. Jour. Am. Med. Assn., 1924, lxxxiii, 981–984. (With A. T. Mann.)

Wilson, Louis B., M.D., was born December 22, 1866 in Pittsburgh, Pennsylvania, graduated from the Pennsylvania State Normal School at California, Pennsylvania, in 1886; taught biology in the Central High School, St. Paul, from 1888 to 1896; received the degree of M.D. from the University of Minnesota in 1896; was assistant in, and later assistant director of the bacteriological laboratory of the Minnesota State Board of Health (from 1896 to 1905), and simultaneously assistant professor of pathology and bacteriology in the University of Minnesota. He came to the Mayo Clinic to organize and develop its laboratories January 1, 1905. He was director of laboratories in the Mayo Clinic until the division was subdivided in 1920; since then he has been head of the Section on General Pathology. He has been director of The Mayo Foundation, and professor of pathology, The Mayo Foundation, Graduate School, University of Minnesota, since 1915. During the war he was Major, Medical Corps, U. S. A., from January, 1918 to June, 1919; for fifteen months of this service he was assistant director of the Laboratory Division, A. E. F. He was promoted to the rank of Colonel and given the distinguished service medal. He is a member of the Olmsted County Medical Society, the Southern Minnesota Medical Association, the Minnesota State Medical Association, the American Medical Association, the Association of American Physicians, the American Association of Pathologists and Bacteriologists, the American Anatomists, the American Association for Cancer Research, the American Association for the Advancement of Science, diplomate of the National Board of Medical Examiners, the Association of Resident and Ex-Resident Physicians of the Mayo Clinic, Alpha Kappa Kappa, and Sigma Xi. He married Maud H. Mellish August 23, 1924. His address is Rochester, Minnesota.

Louis B. Wilson

Bibliography.—1. The spinal cord in a case of pernicious anemia. Internat. Med. Mag., 1896–1897, v, 497–500. (With C. E. Riggs—Path. Report by Wilson.)

2. Preliminary report on the serum diagnosis of typhoid fever in an epidemic during which typhoid bacillus was isolated from the public water supply. British Med. Jour., 1897, ii, 1774. (With F. F. Wesbrook.)

3. Preliminary communication on bacillus diphtheriæ and its variants in a school in which diphtheria was epidemic. Brit. Med. Jour., 1898, i, 1008–1011. (With F. F. Wesbrook, O. McDaniel, and F. L. Adair.)

4. Serum diagnosis of typhoid fever from the public health laboratory point of view. Tr. Am. Public Health Assn., 1898. Phila. Med. Jour., 1898, i, 549–553. (With F. F. Wesbrook.)

5. Preliminary report on the laboratory diagnosis in twenty cases of suspected rabies. Am. Public Health Assn. Report, 1898, xxiii, 219–238. (With F. F. Wesbrook.)
6. A case of Landry's paralysis. Phila. Med. Jour., 1898, ii, 1181–1184. (With C. L. Greene and J. L. Rothrock.)
7. Elements of error in interpreting the Widal reaction in typhoid fever. Northwest Lancet, 1898, xviii, 286–289.
8. Sundry studies and papers under titles from the Minnesota State Board of Health Report, 1895–1898.
9. A case of suspected rabies, with isolation of B. diphtheriæ from the central nervous system. Jour. Exper. Med., 1899, iv, 451–477. (With G. D. Head.)
10. Sundry studies from the Minnesota State Board Health Reports, 1899–1900, 450–454, 480–491, 638–649. Infectious Diseases of Animals.
11. Studies on the distribution of certain varieties of the diphtheriæ bacillus. Tr. Am. Public Health Assn. Report, 1899, xxv. (With F. F. Wesbrook and O. McDaniel.)
12. Varieties of B. diphtheriæ. Tr. Assn. Am. Phys., 1900, xv, 198–223. (With F. F. Wesbrook and O. McDaniel.)
13. Sundry studies from the Minnesota State Board of Health Reports. 1900–1903, 74–121, 126–171, 178–179, 189–374.
14. Hemorrhagic septicemia in cattle. Jour. Comp. Med. and Vet. Arch., 1900. Veterinarian, Lond., 1902, lxxv, 457, 459, 643. (With S. D. Brimhall.)
15. Notes on the intracellular occurrence of Diplococcus pneumoniæ in cerebrospinal meningitis. Jour. Am. Med. Assn., 1901, xxxvii, 1675–1677.
16. Sixty-four cases of hemorrhagic septicemia in cattle due to B. bovicepticus. Report of Minnesota Board of Health, 1901, xviii, 351–431. (With S. D. Brimhall.)
17. Diphtheria bacilli in well persons. Report of Mass. Assn. of Boards of Health, July, 1902.
18. The so-called "spotted fever" of the Rocky Mountains. Preliminary report to Montana State Board of Health. Jour. Am. Med. Assn., 1902, xxxix, 131–136. (With W. M. Chowning.)
19. Spotted fever. First Biennial Report Montana State Board of Health, 1902, 25–91.
20. Studies in pyroplasmosis hominis. Jour. Infect. Dis., 1904, i, 31–57. (With W. M. Chowning.)
21. Meningitis in horses, cattle, and sheep. Am. Vet. Rev., 1904, xxvii, 944–960, 1035–1053. (With S. D. Brimhall.)
22. On certain nondiphtheritic membranous anginas. St. Paul Med. Jour., 1904, vi, 649–658.
23. A method for the rapid preparation of fresh tissues for the microscope. Jour. Am. Med. Assn., 1905, xlv, 1737.
24. Acquired diverticulitis of the large intestine. Surg., Gynec., and Obst., 1907, v, 8–15; Tr. Am. Surg. Assn., 1907, xxv, 237–254. (With W. J. Mayo and H. Z. Giffin.)
25. Value of Sondern's differential leukocyte resistance-line in the diagnosis and prognosis of acute appendicitis. Journal-Lancet, 1908, xxviii, 259–263.
26. Stereophotography of pathological specimens: Some improvements in technic and new apparatus. Jour. Med. Res., 1907–1908, xvii, 487–494. (With A. H. Andrews.)
27. The pathological changes in the thyroid gland as related to the varying symptoms in Graves' disease. Am. Jour. Med. Sc., 1908, cxxvi, 851–861. Tr. Assn. Am. Phys., 1908, xxiii, 562–578.
28. The pathological relationships of exophthalmic and simple goiter. Surg., Gynec., and Obst., 1909, viii, 588–602.

29. Pathological relationships of gastric ulcer and gastric carcinoma. Am. Jour. of Med. Sc., 1909, cxxxviii, 846–852. Tr. Assn. Am. Phys., 1909, xxiv, 593–602. (With W. C. MacCarty.)
30. Congenital unilateral absence of the urogenital system. Ann. Surg., 1909, l, 907–912. (With D. C. Guthrie.)
31. A case of carcinoma on diverticulitis of the sigmoid. Am. Jour. Med. Sc., 1909, cxxxviii, 661–666. (With H. Z. Giffin.)
32. The hospital laboratory, with special reference to diagnosis in surgical cases. St. Paul Med. Jour., 1910, xii, 233–238.
33. Hypernephromata. Old Dominion Jour. of Med. and Surg., 1910, x, 237–252; Trans. South. Surg. and Gynec. Assn., 1910, xxii, 277–293.
34. Pathologic relationship of ulcer and carcinoma of the alimentary canal. Jour. Am. Med. Assn., 1910, lv, 921–926. (With B. C. Willis.)
35. Diverticula of the lower bowel: Their development and relationship to carcinoma. Ann. Surg., 1911, liii, 223–231.
36. Comparative study of the histology of the so-called hypernephromata and the embryology of the nephridial and adrenal tissues. Jour. Med. Res., 1911, xxiv, 73–90. (With B. C. Willis.)
37. The causation of cancer. Tr. Virginia Med. Soc., 1911.
38. Note on the mesotheliomata (so-called hypernephromata) of the kidney. Ann. Surg., 1912, iv, 282–284; Tr. Assn. of Am. Phys., 1911, xxvi, 507–512.
39. Surgical pathology of the prostate. Surg., Gynec., and Obst., 1911, xiii, 647–681; Jour. Am. Med. Assn., 1911, lvii, 1601–1606. (With B. F. McGrath.)
40. The so-called mixed tumors of the salivary glands. Am. Jour. Med. Sc., 1912, cxliii, 656–670.
41. The embryogenetic relationships of tumors of the kidney, suprarenal, and testicle. Ann. Surg., 1913, lvii, 522–535. South. Surg. and Gynec. Assn., 1912–1913, xxv, 275–290.
42. Fatal postoperative embolism. Ann. Surg., 1912, lvi, 809–817; Tr. Assn. of Am. Phys., 1912, xxvii, 442–450.
43. Graduate instruction in medicine. St. Paul Med. Jour., 1912, xiv, 287–295.
44. The importance of concentration in museum collections for purposes of research. Internat. Assn. Med. Mus., 1913, iv, 16–18.
45. The microscopic examination of fresh tissue for the diagnosis of early cancer. St. Paul Med. Jour., 1913, xv, 274–278.
46. The pathology of splenomegaly. A study of the operative and autopsy material from the Mayo Clinic. Surg., Gynec., and Obst., 1913, xvi, 240–251.
47. The relationship of the clinical and pathologic aspects of exophthalmic goiter. Northwest. Med., 1913, v, 1–5.
48. Laboratory efficiency. Indianapolis Med. Jour., 1913, xvi, 512–517.
49. Notes on the pathology of simple and exophthalmic goiter. Med. Rec., 1913, lxxiv, 373–378.
50. The pathologic evidence of the relationship between gastric ulcer and gastric cancer. Collected Papers Mayo Clinic, 1913, v, 149–159.
51. The pathology of the thyroid in exophthalmic goiter. Am. Jour. Med. Sc., 1913, cxlvi, 781–790; Tr. Assn. of Am. Phys., 1913, xxviii, 576–586.
52. The relation of the pathology and the clinical symptoms of simple and exophthalmic goiter. Jour. Am. Med. Assn., 1914, lxii, 111–112.
53. A study of the pathology of the thyroid glands from cases of toxic nonexophthalmic goiter. Am. Jour. Med. Sci., 1914, clxvii, 344–351; Journal-Lancet, 1914, xxxiv, 93–97.
54. A study of the results of recent investigations of the thyroid in relation to symptomatic goiter. Journal-Lancet, 1914, xxxiv, 93–97.

55. Some new stands and cameras for photomicrography and general laboratory photography. Am. Photography, 1914, viii, 204–207; Am. Jour. Med. Sc., 1914, cxlviii, 796.
56. Some new cameras for laboratory use. Jour. Am. Med. Assn., 1914, lxii, 1089–1090.
57. Studies in the pathology of early gastric carcinoma. Colorado Med., 1914, xi, 366–375.
58. A further report of the pathologic evidence of the relationship of gastric ulcer and gastric carcinoma. Am. Jour. Med. Sc., 1914, cxlviii, 796–810; Tr. Assn. Am. Phys., 1914, xxiv, 447–469. (With I. W. McDowell.)
59. The autopsy service of the modern clinic and its relation to life insurance. Trans. Am. Life Convention, 1915; Jour. Am. Med. Assn., 1915, lxiv, 1560–1562.
60. The relationship of the histology and the iodin content of the thyroid. Tr. Assoc. Am. Phys., 1915, xxx, 458–473; Am. Jour. Med. Sc., 1916, cli, 79–91. (With E. C. Kendall.)
61. Studies in the pathology of the spleen. II. Pathology of spleens removed for certain abnormal conditions of the blood. Ann. Surg., 1915, lxii, 158–165; Tr. Am. Surg. Assn., 1915, xxxiii, 209–214.
62. The necropsy as to public service. Jour. Am. Med. Assn., 1915, lxiv, 1560–1562.
63. Pathologic changes in the muscular and nervous systems in goiter. Bulletin, 4th District Med. Soc., N. C., 1915, iii, 5–14.
64. Staining sections of living tissue, unfixed. Jour. Lab. and Clin. Med., 1915, i, 40–45.
65. Model of gastric tubules in early gastric cancer. Jour. Cancer Res., 1916, i, 357–358.
66. The pathologic changes in the sympathetic system in goiter. Am. Jour. Med. Sc., 1916, clii, 799–812; Tr. Assn. Am. Phys., 1916, xxxi, 121–127.
67. Suggestions concerning staining methods used in the study of pathologic lesions in sympathetic ganglia. Internat. Assn. Med. Mus. Bull., 1916, vi, 62–64.
68. Changes in the superior cervical sympathetic ganglia removed for the relief of exophthalmus. Jour. Med. Res., 1916, xxxiv, 273–296. (With Luigi Durante.)
69. Further study of the histopathology of the autonomic nervous system in goiter. With a note on the special technic of reconstructions at high magnifications. Jour. Lab. and Clin. Med., 1916–1917, ii, 295–307. (With T. O. Young.)
70. The status of the graduate degree in medicine. Science, 1917, xlvi, 127–131.
71. Experimental lesions in the cervical sympathetic ganglia in relation to exophthalmic goiter. Am. Jour. Med. Sc., 1918, clvi, 553–557. Copyright, Lea and Febiger, Tr. Assn. Am. Phys., 1917, xxxii, 336–341.
72. The histopathology of the autonomic system in goiter. Journal-Lancet, 1917, xxxvii, 368–370.
73. Goiter considered from the standpoint of the pathologist. Mississippi Valley Med. Jour., 1918, xxv, 225–231.
74. Graduate work in medicine in the University of Minnesota. Journal-Lancet, 1918, xxxviii, 1–5.
75. Trench foot. A review of the literature of the etiology and the pathology. Bull. Internat. Assn. Med. Mus., 1918, vii, 202–223.
76. The autopsy service of the American Expeditionary Forces. Tr. Assn. Am. Phys., 1919, xxxiv, 291–297.
77. The pathologic service of the American Expeditionary Forces. Mil. Surgeon, 1919, xlv, 692–705.
78. Graduate medical education in Great Britain and France. Jour. Am. Med. Assn., 1919, lxxiii, 1955–1957.
79. The present status of preclinical branches. Chicago Med. Rec., 1920, xlii, 465–469. Med. Rec., 1920, xcviii, 999–1000.
80. Graduate education in roentgenology. Am. Jour. Roentgenol., 1920, vii, 580–581.
81. Museum and art service of the American Expeditionary Forces. Mil. Surgeon, 1920, xlvi, 165–172.

82. The Mayo Foundation for Medical Education and Research. Sigma Xi Quarterly, 1920, viii, 52.
83. The 1919 laboratory field in retrospect. Mod. Hosp., 1920, xiv, 191–192.
84. Report of Committee on Graduate Medical Education in the United States. Am. Med. Assn. Bull., 1920–1921, xiv, 45–49; Jour. Am. Med. Assn., 1920, lxxiv, 912.
85. The Medical school and the hospital. Hosp. Prog., 1921, ii, 13–15.
86. Malignant tumors of the thyroid. Ann. Surg., 1921, lxxiv, 129–184.
87. Recent advances in our knowledge of pathology of goiter. Keen's Surgery, Phila., Saunders, 1921, viii, 42–46.
88. Illustrative cases of malignant tumors of the thyroid. Surg. Clin. N. Amer., 1921, i, 1291–1306.
89. Dispersion of bullet energy in relation to wound effects. Mil. Surgeon, 1921, xlix, 241–251.
90. The acquisition of useless knowledge. Minn. Med., 1921, iv, 500–504.
91. The pathologic classification of lesions of the thyroid gland. Ann. Clin. Med., 1922, i, 44–50.
92. Teaching the fundamentals of surgery from the point of view of the graduate school. Jour. Am. Med. Assn., 1922, lxxix, 120–125.
93. Something besides. Hosp. Prog., 1922, iii, 327–330.
94. The pathology of hyperthyroidism. Jour. Michigan State Med. Soc., 1922, xxi, 369–373.
95. Malignant tumors of the thyroid. Oxford Med., 1922, iii, 873–882.
96. Factors in the continued development of the physician. Calif. State Med. Jour., 1923, xxi, 73–76.
97. The pathology of nodular (adenomatous?) goiters in patients with and in those without symptoms of hyperthyroidism. Am. Jour. Med. Sc., 1923, clxv, 738–742; Tr. Assn. Am. Phys., 1922, xxxvii, 68–73.
98. Report of Committee on Graduate Medical Education of the Council of Education of the American Medical Association. Proc. Annual Cong. Med. Ed., Med. Life Insurance, Public Health and Hospitals. Chicago, March, 1923.
99. The heart in exophthalmic goiter and adenoma with hyperthyroidism. Med. Clin. N. Amer., 1923, vii, 189–219. (With F. A. Willius and W. M. Boothby.)
100. The behavior of the heart in exophthalmic goiter and adenomatous goiter with hyperthyroidism. Tr. Assn. Am. Phys., 1923, xxxviii, 137–145. (With W. M. Boothby and F. A. Willius.)
101. The distinctive functions of undergraduate and graduate medical schools. South. Med. Jour., 1924, xvii, 707–713.
102. Microscopic examination of fresh tissue, and necropsy service in relation to surgery. Tr. South. Surg. Assn., 1924, xxxvii, 241–248; Ann. Surg., 1925, lxxxi, 863–868.
103. Our present knowledge of cancer. Minn. Med., 1925, viii, 82–88.
104. Coloración de tejidos vivos. (Translated into Spanish by Dr. Manuel Balado.) Bol. d. inst. clin. quir., 1925, i, 61–65.
105. Necropsies as an index of efficiency of treatment. Virginia Med. Month., 1925, lii, 13–18.
106. Report of The Mayo Foundation for the year ending July 1, 1925. Tr. Res. and Ex-Res. Phys. Mayo Clinic, 1925, vi, 299–304.

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Bibliography.—1. The threshold of ketogenesis. Jour. Biol. Chem., 1922, lii, 393–401. (With R. M. Wilder.)

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Bibliography.—1. Oxidation of *m*-nitrobenzoylformaldehyd. Jour. Am. Chem. Soc., 1911, xxxiii, 1772–1779. (With W. L. Evans.)

2. Oxidation of propyleneglycol. I. Action of alkaline potassium permanganate giving carbonic, acetic, and oxalic acids. Jour. Am. Chem. Soc., 1912, xxxiv, 1086–1104. (With W. L. Evans.)

3. Theory of diabetes. II. Glycid and acetol in the normal and phlorhizinized animal. Jour. Biol. Chem., 1914, xvi, 455–464. (With J. R. Greer and R. T. Woodyatt.)

4. Preparation of acrolein. Jour. Am. Chem. Soc., 1914, xxxvi, 1766–1770.

5. Synthetic preparation of *dl*-glyceric aldehyd. Jour. Am. Chem. Soc., 1914, xxxvi, 1908–1916.

6. The isolation of crystalline *dl*-glyceric aldehyd from a syrup obtained by the oxidation of glycerol. Jour. Am. Chem. Soc., 1914, xxxvi, 2223–2233.

7. New method of preparation and some interesting transformations of colloidal manganese dioxid. Jour. Am. Chem. Soc., 1915, xxxvii, 1079–1091.

8. Rôle of atmospheric oxygen in the oxidation of glucose with potassium permanganate in the presence of varying amounts of alkali. The products of oxidation. Jour. Am. Chem. Soc., 1916, xxxviii, 150–161.

9. Variations in the physical properties of precipitated and colloidal manganese dioxid from the point of view of physical chemical equilibrium. Jour. Am. Chem. Soc., 1917, xxxix, 25–33.

10. Preparation of glycolic acid. Jour. Am. Chem. Soc., 1917, xxxix, 109–112.

11. Rôle of atmospheric oxygen and alkali in the oxidation of acetone with potassium permanganate. Pyruvic acid as an intermediate product. Jour. Am. Chem. Soc., 1917, xxxix, 2657–2671.

12. The effect of variations in the available alkali on the yield of acetone in the oxidation of butyric acid with hydrogen peroxid. Jour. Biol. Chem., 1918, xxxv, 83–100.

13. Explosions with ammoniacal silver oxide solutions. Jour. Indus. and Engin. Chem., 1919, xi, 893.

14. Volatility with steam of lower fatty acids in dilute aqueous solutions. Jour. Am. Chem. Soc., 1919, xli, 1946–1951.

15. Disodium phosphate as a catalyst for the quantitative oxidation of glucose to carbon dioxid with hydrogen peroxid. Jour. Biol. Chem., 1920, xlv, 1–22.

16. The law of probability applied to the formation of fats from carbohydrates. Jour. Phys. Chem., 1921, xxv, 55–60.

17. The transition from crystalloid to colloid properties within homologous series. Jour. Phys. Chem., 1922, xxvi, 201–216.

18. The catalytic effect of ammonia on the oxidation of butyric acid with hydrogen peroxid. Jour. Biol. Chem., 1921, xlix, 123–141.

19. The action of proteolytic enzymes upon insulin. Jour. Biol. Chem., 1923, lvii, 425–435. (With L. Livshis.)

20. The action of ammonium hydroxid and other alkaline compounds upon insulin. Jour. Biol. Chem., 1923, lviii, 463–474. (With L. Livshis.)

21. Leucoplasts: living, reproducing perfect chemical catalysts. Jour. Phys. Chem., 1923, xxviii, 305–312.

22. Action of guanidin upon glucose in the presence and absence of oxygen. Jour. Am. Chem. Soc., 1924, xlvi, 790–794.

23. The influence of phosphates on the oxidation of butyric acid with hydrogen peroxid. Jour. Am. Chem. Soc., 1926, xlviii, 202–208.

24. The simultaneous oxidation of glucose and butyric acid. Jour. Am. Chem. Soc., 1926, xlviii, 208–210.
25. The oxidation of α- and β- hydroxybutyric acids with hydrogen peroxid. Jour. Am. Chem., Soc., 1926, xlviii, 211–222.

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Bibliography.—1. Methods of graphically recording tremors, clonus, and reflexes. Journal-Lancet, 1917, xxxvii, 423–427.
2. Brain changes associated with pernicious anemia. Arch. Int. Med., 1918, xxi, 791–843.
3. Brain changes and pernicious anemia. (Abstract.) Jour. Am. Med. Assn., 1918, lxxi, 310.
4. Tetany in the eunuchoid: Report of a case. Jour. Nerv. and Mental Dis., 1919, l, 433–438.
5. The nervous symptoms in pernicious anemia. Minn. Med., 1919, ii, 306–310.
6. The nervous symptoms in pernicious anemia. An analysis of 150 cases. Am. Jour. Med. Sc., 1919, clvii, 400–409.
7. Facial paralysis. Med. Clin. N. Amer., 1919, iii, 557–581.
8. Arteriosclerosis of the nervous system. An analysis of fifty-nine cases with cord changes. Med. Clin. N. Amer., 1921, v, 511–520.
9. Spina bifida, a review of 187 cases, including three associated cases of myelodysplasia without demonstrable bony defect. Minn. Med., 1921, iv, 244–259.
10. An historical sketch of the physiology of the nervous system. Journal-Lancet, 1921, xli, 570–574.

11. Malignant tumors of the nasopharynx with involvement of the nervous system. Arch. Neurol. and Psychiat., 1922, viii, 412–429.
12. Lead poisoning from face enamel. Jour. Am. Med. Assn., 1922, lxxxix, 1685.
13. Neurologic aspects of the early diagnosis of pernicious anemia. Ann. Clin. Med., 1922, i, 159–160.
14. Involvement of the nervous system in malignant disease of the nasopharynx. Med. Clin. N. Amer., 1923, vii, 309–315.
15. The mental changes associated with pernicious anemia. Am. Jour. Psychiat., 1924, iii, 435–449.
16. The more common neurologic disorders associated with pain, and encountered in general diagnosis. Minn. Med., 1924, vii, 193–202.
17. Headaches. Med. Clin. N. Amer., 1925, viii, 1319–1340.
18. The syndrome of compression of the spinal cord. Northwest Med., 1926, xxv, 17–24.
19. Some of the clinical manifestations of tumors of the spinal cord. Colorado Med., 1926, xxiii, 5–10.
20. Pain as a symptom of disease, particularly of the nervous system. Northwest Med., 1926, xxv, 233–239.
21. Abscess of the spinal cord: Report of a case with some functional recovery after operation. Brain, 1926, xlix, 193–206. (With A. W. Adson.)

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Bibliography.—1. Further study of the histopathology of the anatomic nervous system in goiter. With a note on the special technic of reconstruction at high magnifications. Jour. Lab. and Clin. Med., 1916–1917, ii, 295–307. (With L. B. Wilson.)
2. A consideration of postoperative complications following thyroidectomy. Minn. Med., 1924, vii, 514–519.
3. Postoperative management following gastric operations. Minn. Med., 1924, vii, 730–737. (With L. H. Fowler.)

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Bibliography.—1. Primary peritonitis. Ann. Surg., 1924, lxxix, 418–423.
2. Reaction of bone to various metals. Arch. Surg., 1924, ix, 365–412.

INDEX

According to the University or College by which the Degree of Doctor of Medicine was Conferred

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Larson, E. E. (1919)
Latchem, R. L. (1911)
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Nickel, A. A. C. (1923)
Noonan, J. J. (1918)
Olson, F. A. (1908)
Ott, W. O. (1914)
Parker, B. R. (1915)
Pfunder, M. C. (1919)
Porteus, R. W. (1906)
Rosburg, A. H. (1912)
Rosenow, E. C. (1902)
Seed, L. (1920)
Senty, E. G. (1916)
Shelden, W. D. (1895)
Shephard, J. H. (1904)
Smith, A. A. (1912)
Stacy, L. J. (1905)
Walters, W. (1919)
Wilder, R. M. (1912)
Cincinnati, University of
Asbury, E. (1920)
Mason, E. C. (1920)
Mussey, R. D. (1908)
Palmer, D. W. (1906)
Colorado, University of
Kemper, C. F. (1917)
Columbia University, College of Physicians and Surgeons
Anderson, G. C. (1917)
Bliss, J. H. (1921)
Bueermann, W. H. (1921)
Carber, F. H. (1912)
Deedera, C. (1907)
Jackson, A. S. (1919)
‡‡Kendall, E. C. (1910)
Mebane, D. C. (1920)
Pilcher, J. T. (1904)
Schoonover, F. S., Jr. (1918)
Sullivan, R. P. (1907)

Copenhagen, University of
Kindt, E. N. (1916)
Cornell University
Crawford, A. S. (1915)
Creighton University
Arrasmith, W. J. (1913)
Ash, W. A. (1923)
Collins, H. A. (1922)
Ebert, J. W. (1921)
*Godberson, H. H. (1921)
McGuire, L. D. (1917)
Malloy, J. F. (1921)
Martin, C. L. (1916)
Parker, S. T. (1921)
Rivers, A. B. (1917)
Dartmouth College
††Stearns, H. O. (1917)
Drake University
Everall, B. C. (1907)
Edinburgh University
Archibald, A. (1910)
Joseph, E. G. (1918)
Mailer, R. (1923)
Noble, T. P. (1913)
Emory University, Atlanta
Shippey, S. H. (1923)
Genoa, Royal University of
Durante, L. (1913)
Georgetown University
Herbst, W. P., Jr. (1915)
McGrath, B. F. (1895)
Moran, R. E. (1920)
Sanderson, F. R. (1915)
George Washington University
Bowen, W. L. (1921)
Bradley, E. L. (1920)
Horgan, E. J. (1908)
Horwitz, A. (1923)
Lyons, J. H. (1918)
Sager, W. W. (1922)
White, P. A. (1916)
Georgia, University of
Thompson, T. C. (1908)
Hamline University
Murray, J. T. (1907)
Harvard University
Anderson, F. W. (1918)
Anderson, J. G. (1921)
Baker, D. V. (1912)
Baker, H. W. (1906)
Bell, L. P. (1915)
Boothby, W. M. (1906)
Bowler, J. P. (1919)
Brading, E. T. (1923)
Bumpus, H. C., Jr. (1915)
Collins, A. M. (1906)
Fisher, C. (1905)
Fitz, R. (1909)
Gaunt, F. P. (1911)
Gray, E. B. (1918)
Gunby, P. C. (1918)
Habein, H. C. (1920)
Haines, S. F. (1919)
Hedblom, C. A. (1911)
Jackson, G. H., Jr. (1918)
McGrath, B. F. (1906)
Marquis, W. J. (1922)
Montgomery, H. (1922)
Harvard University
Murray, G. A. (1915)
Robinson, S. (1902)
Scholl, A. J. (1916)
Scott, A. C., Jr. (1918)
Heidelberg, University of
Amberg, S. (1898)
Hillsdale College, Detroit
Beach, W. (1924)
Illinois, University of, College of Medicine
Bollman, J. L. (1923)
Doughtery, J. P. (1904)
Hallberg, C. A. (1911)
Higgins, G. M. (1919)
Magath, T. B. (1919)
Parker, J. W., Jr. (1920)
Stevens, J. B. (1920)
‡‡Thompson, L. (1925)
Indiana Dental School
*Jones, J. P. (1919)
Indiana University
Barnes, A. R. (1920)
Dunlap, H. F. (1920)
Espenlaub, G. H. (1922)
Huffman, L. D. (1916)
Keiser, V. D. (1917)
Kent, G. B. (1916)
Koons, K. M. (1917)
Mann, F. C. (1913)
Iowa State University
Anderson, E. W. (1923)
Baird, B. A. (1915)
Bannick, E. G. (1920)
Bryan, A. W. (1920)
Davis, A. C. (1916)
Harding, D. B. (1920)
Hundling, H. W. (1915)
Maytum, C. K. (1919)
Powell, L. D. (1918)
Randall, L. M. (1921)
Rockwood, P. R. (1921)
*Storey, W. M. (1910)
Synhorst, A. P. (1922)
Synhorst, J. B. (1921)
Von Lackum, W. H. (1918)
Winter, M. D. (1917)
Jefferson Medical College, Philadelphia
Black, H. S. (1917)
Black, S. O. (1915)
Foss, H. L. (1909)
Stinson, J. W. (1921)
Sweet, P. W. (1908)
Johns Hopkins University
Bergen, R. D. (1921)
Blanco, P. (1916)
Bonta, M. B. (1904)
Brock, S. (1916)
Burns, A. (1923)
Burns, J. G. (1920)
Butler, E. F. (1910)
Butsch, J. L. (1912)
Craig, W. M. (1919)
Crispin, E. L. (1916)
Estes, W. L. (1909)
Finney, W. P. (1916)
Fricke-Davis, W. M. (1912)

Johns Hopkins University
Gay, J. G. (1923)
Giffin, H. Z. (1904)
Greene, C. H. (1920)
Hamrick, R. A. (1923)
Helmholz, H. F. (1906)
Keith, N. M. (1911)
Keyser, L. D. (1918)
MacCarty, W. C. (1904)
McCartney, J. S., Jr. (1917)
McKeithen, A. H. (1923)
McNeal, M. D. (1917)
McVay, J. R. (1915)
Moench, L. M. (1919)
Nichols, R. W. (1912)
Pardee, K. (1918)
Potter, J. C. (1921)
Pulford, D. S., Jr. (1917)
Redelings, L. H. (1914)
Scarborough, J. I. (1908)
Simpson, E. D. (1912)
Smiley, K. E. (1921)

Kansas, University of, School of Medicine
Dixon, C. F. (1921)

Kansas City, University Medical College of
Toland, C. G. (1901)

Kansas Medical College
Conner, H. M. (1909)

Kristiania, University of
Wiese, H. F. B. (1915)

Long Island College
O'Leary, P. A. (1915)

Louisville University
Anderson, C. W. (1911)
Aud, F. G. (1909)
Blackman, R. H. (1894)
*Butler, E. T. (1919)
Henry, M. J. (1912)
McKenna, H. J. (1910)
Mosby, H. P. (1910)

Loyola University, Chicago
Andres, R. G. (1905)
Hufford, A. R. (1922)
Kegel, A. H. (1916)

McGill University
Busteed, D. F. (1913)
DesBrisay, H. A. (1917)
Frawley, J. M. (1919)
Koster, B. M. (1922)
Lapp, V. R. (1921)
Lockwood, A. L. (1910)
Morse, H. D. (1918)
Stewart, L. A. S. (1916)
Wood ,H. G. (1904)

McKillip Veterinary College
†Foster, J. P. (1908)

Manitoba, University of
Kitchen, H. D. (1921)
Peirce, S. J. S. (1904)

Marion Sims College of Medicine
Carman, R. D. (1901)
Miller, A. (1900)

Marquette University
Anderson, C. M. (1911)
*Eusterman, M. F. (1919)
Froehlich, J. A. (1908)

Marquette University
Schulz, I. (1923)

Maryland, University of
Brogden, J. C. (1914)
Buie, L. A. (1915)
Hoke, C. C. (1914)
Irwin, H. C. (1905)
Perry, C. C. (1920)
Quillen, E. B. (1904)
Rankin, F. W. (1909)
Vinson, P. P. (1914)

Medico-Chirurgical College, Philadelphia
Dooling, H. C. (1908)
Struthers, J. E. (1915)

Miami Medical College
Leech, C. H. (1922)
Lewis, W. H. (1906)

Michigan, University of
Allen, F. J. (1918)
Barlow, R. A. (1914)
Becker, S. W. (1921)
Behn, C. W. (1921)
Benedict, W. L. (1912)
Bozer, H. E. (1919)
Brown, G. E. (1909)
Busman, G. J. (1918)
Cathcart, E. P. (1921)
Chambers, S. O. (1923)
Doolittle, H. M. (1902)
*Gardner, B. S. (1903)
Gipner, J. F. (1921)
Goehring, C. (1915)
Greenfield, W. J. (1918)
Grimes, H. B. (1903)
Hartman, H. R. (1914)
Heetderks, D. R. (1922)
Hempstead, B. E. (1910)
Joyce, T. M. (1910)
‡‡Kegerreis, R. (1926)
Lillie, H. I. (1912)
Lillie, W. I. (1915)
*Lyons, D. C. (1921)
Mayo, W. J. (1883)
Merrill, E. F. (1920)
Muehlig, G. F. (1912)
Muhme, N. B. (1921)
Osborne, E. D. (1919)
Prangen, A. D. (1915)
Ruedemann, R., Jr. (1917)
Sayers, F. E. (1913)
Shaffer, L. W. (1917)
Shafter, R. R. (1923)
Smithies, F. (1904)
Snyder, J. W. (1906
Stokes, J. H. (1912)
Sutton, G. D. (1915)
Taylor, Rood (1910)
Vaughn, J. W. (1904)
Weld, E. H. (1907)
Willey, V. J. (1909)

Minnesota, University of
‡‡Ashby, W. M. (1921)
*Austin, L. T. (1912)
Beckman, E. H. (1901)
Benjamin, W. G. (1921)
Braasch, W. F. (1903)
Carroll, W. C. (1912)

Minnesota, University of
Chase, E. F. (1905)
Constans, G. M. (1917)
Culligan, J. M. (1921)
Culligan, L. C. (1922)
Dahleen, H. E. (1908)
Dixon, R. K. (1923)
Drips, D. G. (1921)
Dunn, H. L. (1922)
Eusterman, G. B. (1908)
Farrish, R. C. (1901)
Fineman, S. (1919)
Ford, F. A. (1921)
Forsberg, C. W. (1923)
Fowler, L. H. (1920)
Freligh, W. P. (1913)
Gallagher, B. J. (1916)
*Gardner, W. (1921)
Goss, H. L. (1917)
Granger, G. B. (1897)
Hand, J. R. (1924)
Hanson, W. A. (1922)
Hauser, E. D. (1922)
Hayes, J. M. (1910)
††Heck, F. J. (1925)
Heimark, J. J. (1920)
Hutchinson, C. J. (1917)
Jones, H. T. (1921)
Johnson, A. C. (1919)
Judd, E. S. (1902)
Kennedy, R. L. J. (1922)
Kennedy, W. A. (1918)
Kinsella, T. J. (1920)
Kirsch, R. L. (1912)
Kittelson, O. (1912)
*Krogh, H. W. (1921)
Lange, A. E. (1920)
Long, W. H. (1912)
Lynch, G. V. (1916)
Madsen, L. J. (1924)
Mark, A. E. (1915)
Maschgar, A. P. (1905)
Matthews, J. (1905)
Mayer, L. (1921)
*Meisser, J. G. (1919)
Meyerding, H. W. (1909)
Moersch, F. P. (1913)
Moersch, H. J. (1921)
Murphy, L. T. (1920)
Nelson, M. O. (1923)
Nesbit, H. T. (1922)
Ohage, J. (1910)
‡‡Osterberg, A. E. (1925)
††Pettibone, D. F. (1917)
Piper, M. C. (1910)
Plankers, A. G. (1918)
Pollock, L. W. (1912)
Prinzing, J. (1901)
Renshaw, K. (1916)
Richdorf, L. F. (1921)
‡‡Sandiford, I. (1919)
Sargeant, H. L. (1917)
Schmitt, E. O. G. (1923)
Schneider, E. H. (1910)
Smith, E. V. (1907)
Smith, F. L. (1906)
Smith, M. I. (1906)
Snell, A. M. (1918)

Minnesota, University of
Sutton, G. E. (1914)
Wangensteen, O. H. (1922)
Weyrens, J. P. (1909)
***Whelan, M. (1925)
Willius, F. A. (1914)
Willson, H. S. (1904)
Wilson, L. B. (1896)
Woltman, H. W. (1913)
Young, T. O. (1920)
Zierold, A. A. (1918)
Missouri, University of
Mayo, W. W. (1854)
Munich, University of
Luden, G. M. (1912)
Nashville, University of
Sanders, R. L. (1906)
Nebraska, University of
Baumgartner, C. J. (1923)
Burman, G. E. (1918)
Davis, K. S. (1918)
Figi, F. A. (1918)
Killins, W. A. (1921)
**MacKenzie, B. F. (1922)
‡Minier, H. H. (1920)
‡‡Power, M. H. (1923)
New York Homeopathic College of Medicine
Adams, S. F. (1920)
Pangburn, J. W. (1917)
Willan, E. H. (1916)
New York University
Draper, J. W. (1898)
Richards, R. T. (1903)
Northwestern University
Bleifuss, W. F. (1912)
Boyden, F. E. (1905)
Boyden, G. F. (1911)
Eager, B. F. (1918)
Faust, L. S. (1923)
Hallenbeck, D. F. (1908)
Herb, I. C. (1892)
Hess, C. L. (1914)
Houck, K. H. (1922)
Lowell, H. M. (1914)
Lyons, H. R. (1916)
McNevin, C. F. (1908)
Mayo, C. H. (1888)
Mensing, E. H. (1909)
Plummer, H. S. (1898)
Plummer, W. A. (1910)
Proctor, O. S. (1920)
*Ranfranz, O. E. (1924)
Ristine, E. F. (1910)
Rockwell, D. C. (1919)
Rowley, W. N. (1918)
Sanford, A. H. (1907)
Seeger, S. J. (1911)
Sturdivant, B. F. (1908)
Thomas, G. J. (1908)
Underhill, M. S. (1921)
Williams, P. (1911)
Ohio State University
Austin, R. C. (1913)
Busby, J. L. (1913)
Hyer, C. A. (1920)
‡‡Ort, J. M. (1924)
‡‡Witzemann, E. J. (1912)

Ohio State University
Yoakem, H. H. (1921)
Oregon, University of
Burdon, M. B. (1908)
Coffey, J. R. (1923)
Otago, University of, Dunedin
McIndoe, A. H. (1923)
Paris, University of
Labat, L. G. (1920)
Pennsylvania, University of
Abbott, J. S. (1908)
Abrams, W. D. (1919)
Adson, A. W. (1914)
Anderson, A. R. (1923)
Andrews, C. F. (1916)
Bachman, H. W. (1917)
Bothe, F. A. (1921)
Bowing, H. H. (1917)
†Brimhall, S. D. (1889)
Brown, P. W. (1920)
Brown. R. O. (1920)
Buchanan, J. A. (1915)
Burden, V. G. (1919)
Burns, R. E. (1919)
Chambers, E. F. S. (1907)
Chaney, R. H. (1914)
Chaney, W. C. (1917)
Cobb, D. B. (1921)
Costolow, W. E. (1916)
Desjardins, A. U. (1912)
Doe, C. H. (1912)
Ferrier, P. A. (1911)
Flothow, P. G. (1923)
Freed, C. F. (1920)
Goodwin, A. J. (1915)
Graham, C. (1894)
Guthrie, D. (1905)
*Haley, G. W. (1923)
†Hardenbergh, J. G. (1916)
Hargis, E. H. (1921)
Harrington, S. W. (1913)
Heacock, C. H. (1917)
Henderson, E. F. (1918)
Hendricks, W. A. (1918)
Holloway, J. K. (1920)
Hoon, M. R. (1918)
Jepson, P. N. (1920)
King, C. P. (1912)
Lamson, O. F. (1907)
Logan, A. H. (1907)
Lyday, R. O. (1920)
McEvoy, F. E. (1913)
McFarland, A. R. (1918)
McKnight, R. B. (1920)
McMahon, F. B. (1913)
Magoun, J. A. H. (1916)
Martin, S. P. (1912)
Mastin, E. V. (1916)
Mattson, W. W. (1914)
Pemberton, J. de J. (1911)
Plum, F. A. (1915)
Pontius, S. G. (1918)
Quay, J. E. (1917)
Rice, G. E. (1918)
Robertson, H. E. (1905)
Rohwer, C. J. (1921)
Selby, J. H. (1907)
Simpson, J. K. (1909)
Pennsylvania, University of
Sprunt, W. H., Jr. (1918)
Steinke, C. R. (1909)
Swan, T. S. (1920)
Szlapka, T. L. (1914)
Williamson, C. S. (1920)
Philippines, University of
Lara, C. B. (1919)
Pittsburgh, University of
Austen, W. E. (1921)
Garvin, J. D. (1921)
Hench, P. S. (1920)
McQuiggan, M. R. (1923)
Ochsenhirt, N. C. (1917)
Offutt, S. R. (1919)
Prickman, L. E. (1923)
Simon, H. E. (1922)
Prague, German University of
Wildner, F. S. (1906)
Princeton University
‡‡Sheard, C. (1912)
Punjab University Medical College of Lahore
Joshie, M. C. (1913)
Queen's University, Belfast
Kernohan, J. W. (1920)
Queen's University, Kingston, Ontario
Drennan, J. G. (1895)
McQuay, R. W. (1915)
Radcliffe College
‡Sandiford, K. (1919)
Royal College of Dental Surgeons of Ontario
*Matchett, R. W. (1924)
South Carolina, Medical College of the State of
Wagener, H. P. (1913)
South Carolina, University of
Sanders, J. L. (1919)
Southern California, University of
Moore, E. C. (1904)
Schaefer, J. H. (1916)
St. Louis University
Hansel, F. K. (1918)
Kilfoy, E. J. (1921)
Settle, F. B. (1918)
Tucker, W. J. (1914)
Wilhelm, L. F. X. (1920)
St. Teresa, College of, Winona
**Krebsbach, C. (1920)
Stanford University
Crane, W. W. (1922)
Jameson, C. E. (1921)
Jameson-Todd, B. (1917)
Nagel, G. W. (1921)
Sydney University
Flynn, M. R. (1919)
Syracuse University
Giordano, A. S. (1920)
Gracy, A. (1920)
McDonald, J. F. (1911)
Tennessee, University of
McCuskey, C. F. (1918)
Mitchell, J. I. (1919)
Texas, University of
Comfort, M. W. (1921)
Kilgore, F. H. (1921)

Tokyo, Imperial University of
Ibuka, K. (1916)
Ito, M. (1916)
Nakamura, T. (1911)
Toronto University
Baker, A. H. (1911)
Balfour, D. C. (1906)
Carrick, W. M. (1905)
*Crish, W. A. (1923)
Crompton, C. R. (1915)
Daly, J. (1915)
Dobson, H. V. (1919)
Foulds, G. B. (1914)
Henderson, M. S. (1906)
Latchford, J. K. (1921)
Lemon, W. S. (1905)
McCorvie, J. E. (1914)
McVicar, C. S. (1907)
Masson, D. M. (1920)
Masson, J. C. (1906)
Menzies, P. K. (1910)
New, G. B. (1909)
Reid, J. S. (1920)
Ross, J. W. (1915)
Rowntree, J. W. (1904)
Stark, W. B. (1915)
Stobie, G. H. (1916)
Sutherland, C. G. (1907)
Unsworth, A. D. (1904)
Trinity College, Dublin
Parker, H. L. (1918)
Tufts College
Marsh, H. E. (1913)
Murphy, A. B. (1919)
Richards, C. G. (1910)
Tulane University
Barrier, C. W. (1917)
Gurney, J. O. (1907)
Heard, J. E. (1914)
Lyons, S. C. (1919)
Parham, D. (1918)
Sistrunk, W. E. (1906)
Vanderbilt University
Baker, C. E. (1917)
Cole, R. K. (1899)
Douglass, H. L. (1914)
Evans, R. M. (1914)
Mahon, G. D., Jr. (1913)
Marsh, F. E. (1922)
Moore, T. D. (1916)
Sisk, I. R. (1916)
Vienna, University of
Grob, O. (1923)
Virginia, Medical College of
Braswell, J. C. (1915)
Broders, A. C. (1910)
Clark, C. M. (1913)
McDowell, I. W. (1908)
Nixon, S. H. (1920)
Walker, J. C. (1914)
Virginia, Medical College of
Willius, B. C. (1909)
Virginia, University of
Blackford, J. M. (1910)
Blackford, L. M. (1923)
Crenshaw, J. L. (1906)
Gilliam, J. D. (1919)
Harshbarger, I. L. (1922)
Looney, J. J. W. (1909)
Moore, A. B. (1907)
Morton, C. B. (1922)
Omohundro, M. P. (1922)
Reeves, T. B. (1914)
Taylor, R. V., Jr. (1910)
Wilkins, J. A. (1919)
Washington University, St. Louis
Decker, W. J. (1923)
Fardy, M. J. (1918)
McKee, J. W. (1918)
Mahle, A. E. (1918)
Thompson, J. W. (1923)
Wahle, G. H. (1919)
Waller, R. M. (1920)
Washington, University of
Peterman, M. G. (1920)
Western Reserve University
Herz, R. (1917)
Melson, O. C. (1916)
Western University, London, Ontario
Foucar, H. O. (1917)
Martin, R. B. (1915)
Rowntree, L. G. (1905)
Weir, J. F. (1918)
Wisconsin College of Physicians and Surgeons
Goeckerman, W. H. (1906)
Wisconsin, University of
Millet, M. C. (1895)
††Sawyer, F. M. (1923)
Women's Medical College, Philadelphia
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*Settelen, M. E. (1922)

Key to Symbols: *D.D.S.
**B.S.
†V.M.D.
††M.S.
‡B.A.
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***M.A.

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